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The INLAND SEED CO.



1915

SPOKANE · WASHINGTON
913 · 915 FIRST AVENUE ❀ ❀

THE INLAND SEED CO.

Our Annual Message

In presenting our Annual Catalogue to our many customers and to the public at large, we want to express our heartfelt thanks, for the support so generously given us during the past year. The year 1914 was a much more successful one than 1913. Our sales were not only larger, but extended into sections and places which we had heretofore looked upon as outside our territory.

This was specially gratifying to us, inasmuch as it conclusively proves that the public is more and more awakening to the fact that it is economy to procure seeds and other goods that are dependable. A little extra in freight or express charges has not deterred the people from sending us their orders. We believe that the best is not any too good, hence we are continually striving after higher and better things.

We Are

The great seed store between Minneapolis and the Coast, serving more patrons and extending our trade over a much larger territory than any other seed house in all this great Inland Section.

There's a Reason

When Ordering

Write name and address plainly, giving name of post office and shipping point.

Use our order sheets.

Send money with order. Stamps accepted.

Figure postage correctly.

When You

Receive your order, if there is any mistakes or if it is not entirely satisfactory notify us at once, giving date of order. When you want to know anything write us and we will give the information if we can do so.

We exercise the greatest care to furnish seeds that are pure and reliable, but owing to the various conditions of climate, soil and cultivation attending success, warrant nothing in any particular whatever.

**Yours for Better Goods,
Better Times,
Better Service,
Better Treatment,
Better Understanding,**

The Inland Seed Co.

The Inland Seed Company's

1915--Seed Catalogue--1915

ARTICHOKE SEED

CULTURE—Sow in April in rich soil and transplant the following spring to permanent beds three feet apart and two feet between the plants. Green Artichoke only gives a partial crop the first season, but the beds will be bearing for years. Protect in winter by a covering of leaves of coarse manure.

GREEN GLOBE—Grown for the unripe flower heads, which are highly esteemed by epicures.

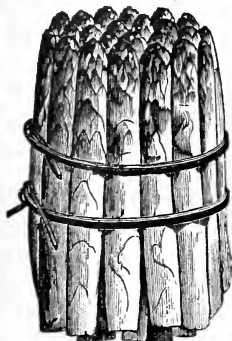
Pkt., 10c; oz., 35c.

ARTICHOKE TUBERS

ARTICHOKE TUBERS—Planted and cultivated the same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, and great productiveness. One lb., postpaid, 15c; 50 lbs., \$1.25; 100 lbs., \$2.50.

ASPARAGUS SEED

CULTURE—Sow early in spring in rows; when one year old the roots may be taken up and transplanted in permanent beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with 6 inches well-rotted stable manure, then 6 inches of soil, somewhat firmed, and place the roots on the same about 10 inches apart with the roots well spread out and cover so that the crown will be about 4 inches below the surface.



PALMETTO—This variety is very desirable on account of its earliness, bright green color, presenting an attractive appearance, excellent flavor and productiveness.

CONOVER'S COLOSSAL—A standard sort; quality first class, spreads less than other sorts.

BARR'S MAMMOTH—A favorite with market gardeners. Shoots very large, tender, quick growing, and thick to the top.

All of the above: Pkt., 5c; oz., 10c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c.

BEANS

It is a fact worth emphasizing that in order to secure the best results from seeds that the seeds themselves should be fully matured, well developed, of good germination, and capable of strong, vigorous growth. In order to secure these very essential and necessary qualities, we are having our wax and green podded bush varieties grown in Washington and Idaho, in localities specially suited to their growth and culture, by men who thoroughly understand the preparation of the ground, cultivation and harvesting of the crop.

This insures to us seed of the very best type and of the highest quality that can be obtained.

CULTURE—Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, in rows 18 inches apart. For field culture, make the rows 3 or 3½ feet apart, and cover with two inches mellow soil.

Wax Podded

PROLIFIC BLACK WAX—A very early wax podded sort; pods round, stringless and of exceptionally delicate and fine quality.

WARDWELL'S KIDNEY WAX—This splendid early variety has a pure wax, flat pod, is entirely stringless, and almost rust-proof, as it holds its pods so high above the ground.

IMPROVED GOLDEN WAX—This is the favorite early wax variety, more largely used than any other.

The pods are flat, yellow, stringless, large and handsome. Very productive.



Golden Wax

DAVIS WHITE WAX—A hardly, rustless and immensely productive bush variety. The pods are long, nearly straight, white and handsome. Lb., 25c, postpaid. At purchaser's expense, 1 lb., 20c; 5 lbs., 80c; 10 lbs., \$1.50.

The foregoing beans unless otherwise quoted: Pkt., 15c; 1 lb., 20c; postpaid. At purchaser's expense, 1 lb., 15c; 5 lbs., 70c; 10 lbs., \$1.25.

Green Podded

EXTRA EARLY ROUND POD RED VALENTINE—The pods are of good quality, thick, tender and stringless.

NEW STRINGLESS—Long, round, green pods, stringless; tender, brittle and of finest flavor. While more hardy to withstand frosts, yet it as tender to cook as any wax pod bean.

Above two varieties: Pkt., 15c; 1 lb., 20c; postpaid. At purchaser's expense, 1 lb., 15c; 5 lbs., 70c; 10 lbs., \$1.25.

CASTOR—Used for medicinal purposes; very ornamental, plants and foliage being large and very tropical in appearance. Pkt., 10c; lb., 35c, postpaid.

NAVY—Lb., 20c, postpaid. Write for price in quantities.

Broad Windsor

BROAD WINDSOR—Stock erect, strong and shrubby. The bean is large, broad and flat. Pkt., 10c; lb., 25c, postpaid. At purchaser's expense, 1 lb., 20c; 5 lbs., 75c; 10 lbs., \$1.25.

Pole

LAZY WIFE—The pods are produced in large clusters in great abundance and are from four to five inches in length. Dark green, rather flat but broad, quite thick, fleshy, and entirely stringless, retaining their brittleness until fully developed; of unusually rich flavor.

LONDON HORTICULTURAL OR SPECKLED CRANBERRY—Vines moderately vigorous, with large, light-colored leaves and purple blossoms; pods short, broad, pale green but becoming streaked with bright red; beans large, ovate, splashed and spotted with wine red.

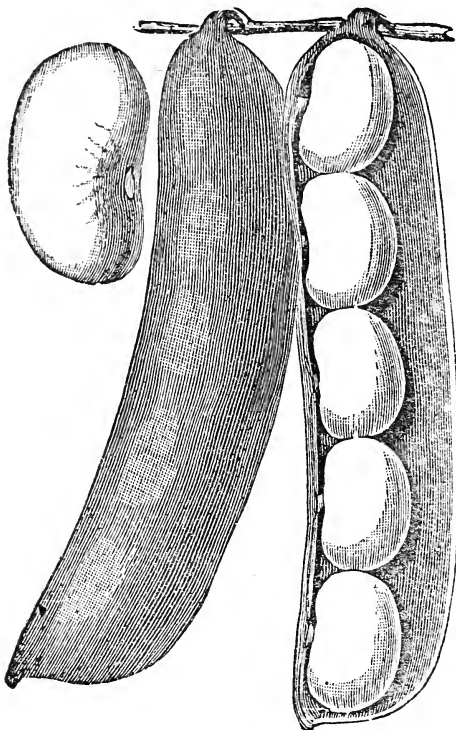
KENTUCKY WONDER (Old Homestead)—Best variety, round and fleshy, maturing quickly and are excellent for use in green state. Enormously productive.

DUTCH CASE KNIFE—Good corn hill bean; very early; pods long and flat; beans white; used green or dry.

All four varieties: Pkt., 15c; 1 lb., 25c, postpaid. At purchaser's expense, 1 lb., 20c; 5 lbs., 75c; 10 lbs., \$1.25.

BEANS—Continued

SCARLET RUNNER—Ornamental and useful. The vine is graceful; flowers are of a brilliant scarlet, and the beans are of an excellent quality, either when shelled or in a dry state. Pkt., 10c; $\frac{1}{4}$ lb., 15c; 1 lb., 30c, postpaid. At purchaser's expense, 1 lb., 25c; 5 lbs., \$1.10; 10 lbs., \$2.00.

Bush Limas

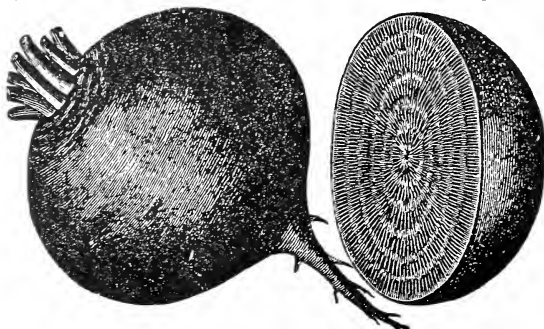
BURPEE'S—It grows vigorously to a height of 18 to 20 inches, forming a circular bush, two or two and a half feet in diameter, yielding from 50 to 150 fine pods.

HENDERSON'S—The New Bush Lima is very compact, bush form, from 15 to 18 inches high, and produces enormous crops of delicious, well-flavored beans.

Both varieties: Pkt., 15c; 1 lb., 25c, postpaid. At purchaser's expense, 1 lb., 20c; 5 lbs., 80c; 10 lbs., \$1.50.

Beets

CULTURE—The soil should be deep, rich and mellow, plowed deep and harrowed until very fine. Drop about one inch deep in drills 12 to 18 inches apart, and when well up thin to four or six inches. The tops of the young beets can be used for greens.

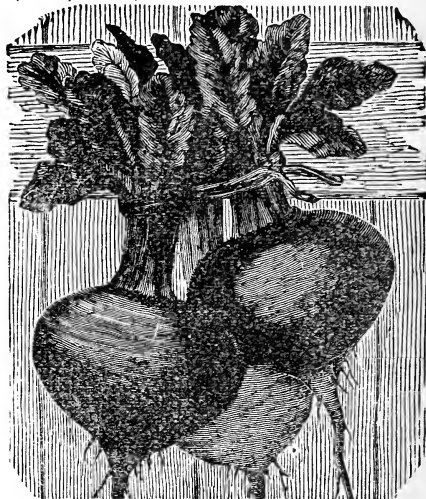
**Detroit Dark Red Beet**

DETROIT DARK RED TURNIP—A fine beet for bunching for market; tops exceptionally small and uniformly upright. The roots are perfect turnip-shape, with small tap-roots. One of the deepest red beets. Quality is of the finest; sweet and tender; best beet for home garden.

IMPROVED HALF-LONG BLOOD—An old and popular variety, especially desirable for autumn and winter use.

All the different varieties of beets unless otherwise marked: Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 35c; 1 lb., 65c; postpaid. At purchaser's expense, 1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00.

SWISS CHARD OR SEA KALE—This variety does not produce an edible root like the regular garden beet, but is highly esteemed for the broad, white leaf stalks and midribs, which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; $\frac{1}{2}$ lb., 45c; 1 lb., 80c.

**Early Blood Turnip**

EARLY BLOOD TURNIP—Roots turnip shaped, deep crimson, tender and sweet.

EXTRA EARLY EGYPTIAN—The earliest sort; rather flat. Best variety for forcing. Small, symmetrical, deep blood color.

ECLIPSE—Makes rapid growth, top small, quality fine, larger than Egyptian, but not so deep a red in color.

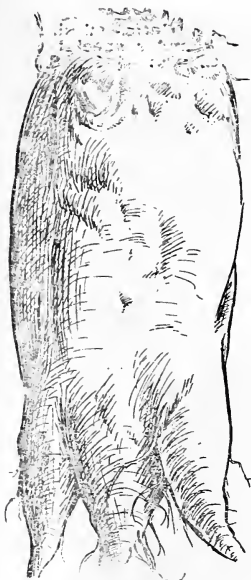
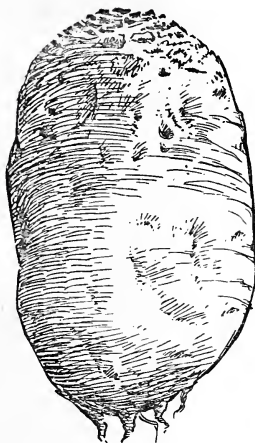
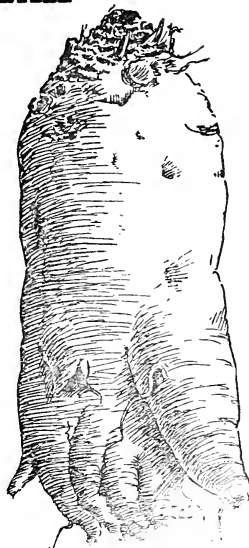
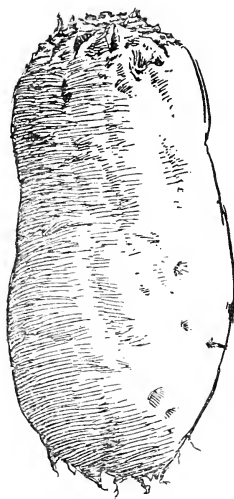
Mangel Wurtzel

All varieties of Mangel Wurtzel and Sugar Beets, oz., 10c; $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 30c; 1 lb., 50c, postpaid. At purchasers expense, 1 lb., 45c; $\frac{1}{2}$ 5 lbs., \$1.75; 10 lbs., \$3.25.

DANISH SLUDSTRUP—The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all mangels, having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled.

GIANT RED ECKENDORF—A very popular variety. The roots are smooth, long and cylindrical in shape, very much like the tankard mangels. They are very heavy, weighing up to 15 and 20 pounds each. The flesh is firm, crisp and solid, white in color and of high feeding value. This variety is easily harvested, a large proportion growing above ground.

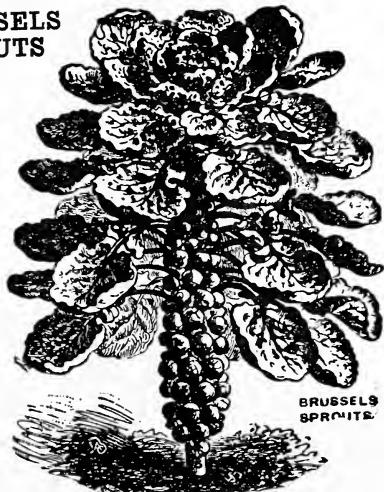
IMPROVED GOLDEN TANKARD—A special feature is the rich, deep yellow color of the flesh, differing in this respect from other Mangels, surpassing them in milk-producing qualities. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields an enormous bulk on good land, and can be grown closely in rows.

MANGEL WURTZEL**Mammoth Long Red****Golden Tankard****"Sludstrup"****"Eckendorf"**

The great importance of growing Mangel Wurtzel and Sugar Beets for stock feeding is becoming more and more apparent to the progressive farmer, on account of their immense yield, and their fine feeding qualities. In order to secure seed from the very best types, we are contracting with European growers, that are looked upon by their competitors as real experts. This seed costs us more than seed from the ordinary strains, grown by ordinary growers, but we have always believed that quality is of more importance than price, and judging from the increase in our sales each year, we are convinced that the farmers are recognizing and appreciating the high quality of these seeds.

NEW MANGEL, HALF SUGAR—A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best Mangels, and twice as much per acre as the rich sugar beet seed; is much easier handled, keeps better and is in every way most valuable to the farmer. Roots large, ovoid in form, very smooth, with few rootlets; light, pink or rose color, with small top.

IMPROVED—MAMMOTH LONG RED—Our stock is a great improvement on the old variety; the roots are very large, uniformly straight and well formed; color deep red, roots solid and tops small; roots attain a large size, producing an immense bulk and tonnage.

BRUSSELS SPROUTS**BRUSSELS SPROUTS**

Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much esteemed by some. Sow in seed bed middle of spring and transplant and manage as winter cabbage. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c.

Sugar Beets

KLEIN WAUZLEBEN—This variety has proved to be a very valuable sort, on account of its richness in saccharine matter, thus demonstrating its superiority for feeding purposes. Roots rather long, slender, growing into the ground. A great yielder.

All varieties of Mangel Wurtzel and Sugar Beets: Oz., 10c; ¼ lb., 20c; ½ lb., 30c; 1 lb., 50c; postpaid. At purchaser's expense, 1 lb., 45c; 5 lbs., \$1.75; 10 lbs., \$3.25.

BROCCOLI

Sow early in spring. Transplant and cultivate the same as cabbage. The broccoli is similar to the cauliflower.

LARGE WHITE MAMMOTH—Pkt., 5c; oz., 35c; ¼ lb., \$1.00.

Cabbage

Cabbage is recognized as a good paying crop. The cost of seed per acre being so little, it would be poor economy to buy inferior seed because it could be purchased a little cheaper. Our seed is grown for us by the most reliable growers in the most favorable locations, and with the sole object in view of securing the purest seed of the best types of the various varieties.

We want to call special attention to four varieties—

CLOVER LEAF COPENHAGEN MARKET.

CLOVER LEAF DANISH SUMMER BALL HEAD.

CLOVER LEAF DANISH BALL HEAD.

CLOVER LEAF ROUND HEAD.

In the cabbage family these four varieties are specially recommended, and we take just pride in the perfection of the types we have secured, and have full confidence that they will prove to our customers all we have claimed them to be.

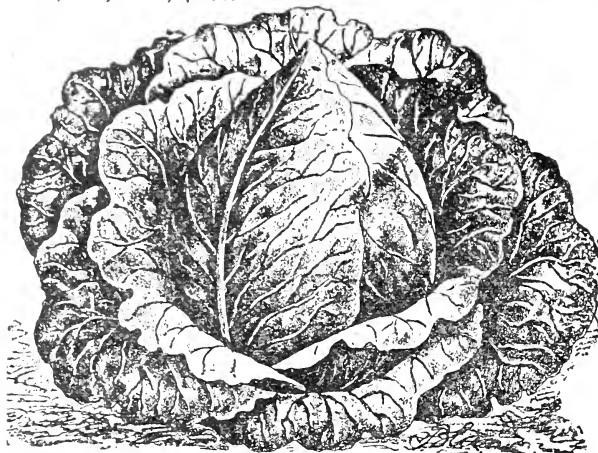
CULTURE—For early cabbages sow the seed in a hot-bed in March or April, covering the seed from ¼ to ½ an inch deep and, when big enough, transplant to another bed. As soon as the ground is in good condition transplant, outside, in rows 2 feet apart and 15 to 20 inches in the row.

First Early

EARLY JERSEY WAKEFIELD—The earliest and hardest heading of extra early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. The thick, stout leaves and

CABBAGE—Continued

compact habit make it the best sort for very early setting. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.



Early Jersey Wakefield

CHARLESTON OR LARGE WAKEFIELD—Larger and a little later than the Early Jersey Wakefield, but having the same general shape, except that it is less pointed. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

EARLY WINNINGSTADT—A very desirable kind, having conical, solid heads; a sure header under almost any condition, and keeps better than most early varieties. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

HENDERSON'S EARLY SUMMER—About 10 days later than the Jersey Wakefield. The head is round, and the largest of the early kinds; can be set close in the row as the outer leaves are small. It remains long without bursting; is firm and of the best quality. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

CLOVER LEAF DANISH SUMMER BALL HEAD—The Danish Summer Ball Head Cabbage is taking the place among the early varieties that the Danish Ball Head holds among the later sorts. It is a second early, extremely hard, long-keeping and of superb quality. It resembles the Winter Ball Head quite closely, excepting that it is smaller and slightly flat on top. It has traces of curliness on the outside leaves and delicate flavor that suggests Savoy blood. Color is light green, very small with fine ribs in the leaves. Grown for us in Denmark under special contract. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 80c; ½ lb., \$1.35; 1 lb., \$2.50.

GLORY OF ENKUIZEN—A comparatively new second early variety, very sure heading and of excellent quality. Plant of vigorous growth, with large, rather spreading outer leaves which are noticeably curved. Head globular or very nearly round, very solid and of large size for so early a variety. Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 70c; ½ lb., \$1.25; 1 lb., \$2.25.

ALL-HEAD EARLY—It is among the earliest of the large cabbages. It is fully one-third larger than the Early Summer. The deep flat heads are remarkably solid and uniform in color, as well as shape and size. It is very tender and of fine quality. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75.

CLOVER LEAF COPENHAGEN MARKET—This superb new cabbage is undoubtedly without a rival as the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time (this being a great consideration to market gardeners, entailing less labor in harvesting the crop, and allowing the ground to be cleared at the first cutting). The heads average about 10 pounds each in weight, are very solid, with small core and of fine quality. It matures as early as Charleston Wakefield, and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level. The leaves are light green, rather small, saucer-shaped, and always tightly folded. The plants, therefore, can

be set closer than is usual with varieties of similar size. Grown for us in Denmark under special contract. Pkt., 10c; oz., 50c; 2 oz., 90c; ¼ lb., \$1.75; ½ lb., \$3.00; 1 lb., \$5.50.



Copenhagen Market

Late or Fall Sorts

SELECTED LATE FLAT DUTCH—A low-growing variety; heads large, bluish green, round, solid, broad and flat on top; an excellent fall and winter variety and a good keeper; it is a sure header. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

PREMIUM LATE DRUMHEAD—A sure heading sort, which in good, rich soil will grow to an enormous size and on poorer soils will give good-sized heads which are very compact, solid and of excellent flavor. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

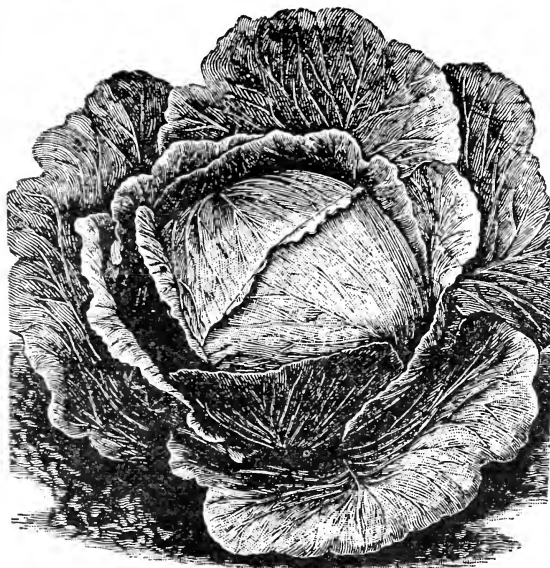
SUREHEAD—A popular sort for main crop; never fails to form uniformly large, solid heads, which are tender and of fine, sweet flavor. An excellent keeper and a good shipper. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.75.

DRUMHEAD SAVOY—The best variety of Savoy or Crumpled leaf cabbage. The plant is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.10; 1 lb., \$2.00.

ROCK RED—Best red sort, much used for pickling. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.10; 1 lb., \$2.00.

CLOVER LEAF HOLLAND OR DANISH BALL HEAD—Short stemmed. Genuine Danish grown stock. Most remarkable late cabbage yet produced. This is one of the hardiest cabbages in cultivation, and endures both frost and drought that would destroy other varieties. Plants very hardy and compact; leaves very smooth, but thick; heads of medium size, round and very solid, being the hardest heading cabbage and insert of the very best quality. Matures quite late, keeps well and is considered by many the best cabbage to hold over for spring markets. Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.35; 1 lb., \$2.50.

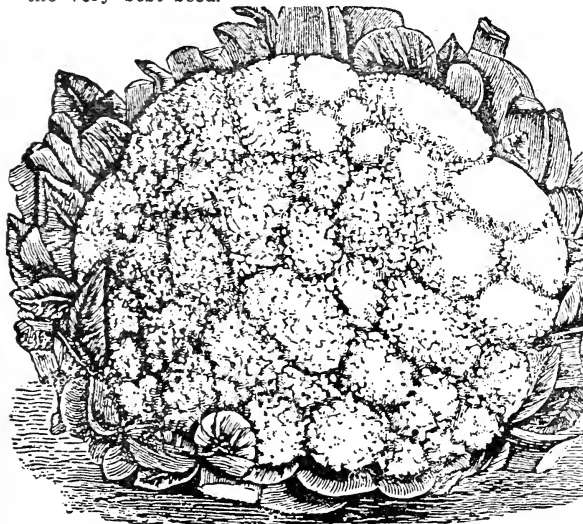
CLOVER LEAF DANISH ROUND HEAD—An earlier, shorter stemmed, improved strain of the Danish Ball Head Cabbage. The heads are hard and very solid and mature about two weeks in advance of the Ball Head. They also average a little larger and heavier. The inner leaves are blanched almost pure white, are of sweet flavor, crisp and tender. Grown for us in Denmark under special contract. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.75.

CABBAGE—Continued**DANISH BALL HEAD.**

DANISH BALL HEAD—Ordinary strain. This is the strain usually offered by ordinary seed houses, but is not nearly so good or reliable as our Clover Leaf strain. We specially recommend our Clover Leaf strain, as it has always taken first place when grown in competition with other strains. **Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 90c; 1 lb., \$1.75.**

Cauliflower

CAULIFLOWER is one of the best paying crops that can be sown. The seed is among the most expensive. Perhaps there is not any other seed that varies so much in price. It is so expensive that some growers save seed from all their plants, while others make a very careful selection, using only perfect plants from which to save their seed. It therefore follows that seed saved by the latter plan will be much more expensive, but much better than seed saved by the former plan. Our seed is grown by Denmark experts, who have made this a study and won for themselves a reputation for growing the very best seed.



CULTURE—The soil for cauliflower should be like that for cabbage, but is better if made richer than is ordinarily used for that crop. It should be borne in mind that cauliflower will not head up good in hot, dry weather, and hence the sowings should be so regulated as to bring it to maturity either before the hot summer weather sets in or not until the cooler weather of the fall. After the heads being to form, draw the leaves over and pin or tie them together to protect the heads from the sun and keep them white.

CLOVER LEAF EARLY SNOWBALL (Best Imported Strain)—This is an improved extra early strain of dwarf, compact growth. Under favorable circumstances nearly every plant will make a fine, solid head of good size. It is valuable for both early and late. **Pkt., 10c; ½ oz., \$1.25; oz., \$2.25; 2 oz., \$4.00; ¼ lb., \$7.00.**

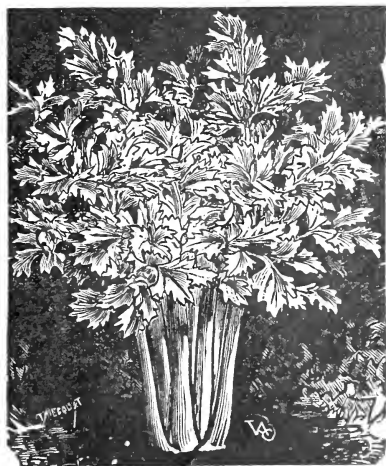
DANISH GIANT OR DRY WEATHER—Large leaved and large flowering, with pure white compact heads. It is truly a first-class cauliflower and is specially adapted to dry locations and to resisting the effects of drought. Two weeks later than the Snowball, when planted at same time. **Pkt., 10c; ½ oz., \$1.25; oz., \$2.25.**

EXTRA EARLY DWARF ERFURT—Very dwarf, sure to head and one of the earliest. The heads are of good size, pure white, very solid, of excellent quality and delicate flavor. **Pkt., 10c; oz., \$2.00.**

AUTUMN GIANT—A distinct and valuable late variety. The heads are reasonably large, beautifully white, firm and compact, and, being well protected by foliage, remain for a long time fit to use. The plants should be started and transplanted early in the season to insure their full development. **Pkt., 5c; oz., 60c; 2 oz., \$1.10; ¼ lb., \$2.00.**

Celery

It is a fact not generally recognized by the planter, and not generally referred to by seed houses, that there are only a few places that produce celery seed of such quality that would warrant it being sown. This is accounted for by the fact that it takes a rare and peculiar combination of soil, climate and conditions to produce this seed to perfection; hence it follows that the seed produced under these favorable conditions will be much higher in price than the ordinary seed, especially when we remember that such favorable conditions are limited. We import our seed from France, where it is grown by one of the best growers under the most favorable conditions.

**White Plume Celery.**

CULTURE—Sow in light, rich soil, in shallow drills, and cover the seed lightly with finely sifted mold. When the plants are 5 to 6 inches high transplant to rows 3 to 4 feet apart, according to the variety, allowing 8 inches between the plants in the row. Cultivate freely and earth up to blanch the stems, pressing the soil firmly around the plant almost to the top, care being taken not to cover the tops of the center shoots.

CELERY—Continued

WHITE PLUME—A new variety; popular on account of its naturally white leaf stalks, which require less blanching than the other kinds. It is early, a fine market sort, and the variety mostly used by gardeners. Pkt., 5c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; ½ lb., \$1.25; 1 lb., \$2.00.

GOLDEN SELF-BLANCHING—It is of a rich, golden tint when ready for the table; very handsome and of excellent quality Pkt., 10c; oz., \$1.00; 2 oz., \$1.80; ¼ lb., \$3.50.

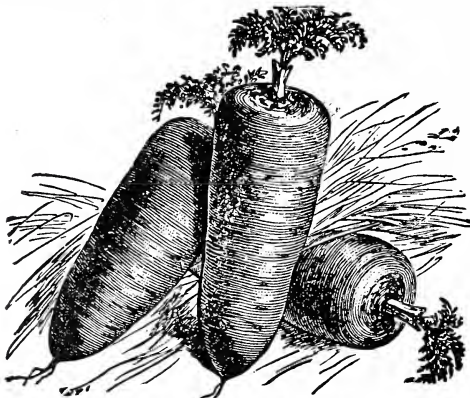
GIANT PASCAL—A standard sort for later or winter market; large fine stalks; when blanched, of a deep golden yellow. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 90c; 1 lb., \$1.75.

CELERIAC, OR TURNIP-ROOTED—Grown exclusively for its roots, which are turnip-shaped, very smooth, tender and marrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad. Pkt., 5c; oz., 20c; ¼ lb., 60c.

Carrots

Too many growers have the idea that any sort of carrot seed is good enough, but this is very erroneous and fatal in securing best results. Our carrot seed has always been given special attention, as quality has always been our first consideration. The results are shown in our yearly largely increased sales, so that this year we are receiving two tons of seed from one of the most careful and painstaking growers. Besides this lot, we are receiving seed from two other reliable growers.

CULTURE—The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in the spring as soon as the ground is in good working order; for late crops they may be sown at any time until the middle of June.



Danvers Half-Long

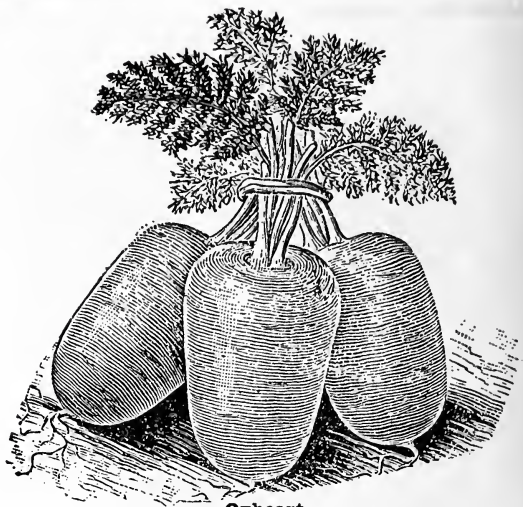
EARLY SCARLET HORN—A very early variety. Recommended for the very early market and family garden. Texture fine; very delicate in flavor. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 45c; 1 lb., 85c.

IMPROVED DANVERS HALF-LONG—A first-class carrot for all soils. The root is of a rich, dark orange color and grows very smooth and handsome. Very productive, producing as much tonnage to the acre as the longer field sorts, and is much easier harvested.

CHANTENAY—Early, scarlet color, stump rooted, broad thick shoulder, heavy cropper. Fine quality. In shape and appearance it takes a place between the Oxheart and the Danvers Half-Long.

IMPROVED LONG ORANGE—Uniformly a deep orange color, growing a long, smooth symmetrical carrot. Remarkable for the absence of the destructive side roots and divisions at the point. Tremendous yielders and of a rich, sweet flavor; will retain its delicious flavor all winter.

OXHEART OR GUEBANDE—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor, and a variety that we can recommend to all market gardeners.



Oxheart.

All varieties of table carrots unless otherwise quoted: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; 1 lb., 65c; postpaid. At purchaser's expense, 1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00.

CARROTS—Stock

LARGE WHITE BELGIAN—Grows one-third out of the ground; root pure white, green above ground, with small top; flesh rather coarse; the roots, on light, rich ground, grow to a large size, and are extensively grown for stock feeding.

MASTODON—The flesh is white, crisp, solid and very sweet in flavor. Roots half long, smooth, very heavy at the shoulder, an immense yielder.

YELLOW GIANT—This new carrot is half-long variety, with an immense broad shoulder. The carrot penetrates less than one-half the depth into the ground. The color is a bright yellow, and is perfection for giving the proper color to your butter. All Stock Carrots: Oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; 1 lb., 60c; postpaid. At purchaser's expense, 1 lb., 55c; 5 lbs., \$2.50; 10 lbs., \$4.50.

Cucumbers

CULTURE—Plant in hills about four feet apart each way; thin out to four of the strongest plants in each hill; they succeed best in warm, moist, rich, loamy soil. The cucumbers should be gathered when large enough to use, whether required or not; if let to ripen, it destroys their productiveness.



CUCUMBERS—Continued

EARLY CLUSTER—A short, prickly variety; usually growing in clusters. Is a prolific bearer, and one of the earliest; flavor excellent.

COOL AND CRISP—A strain of the White Spine, but longer and more cylindrical; very early and exceedingly prolific. While it is esteemed most highly as a pickling sort, it is one of the very best for slicing, being tender, crisp and of fine flavor.

EARLY SHORT GREEN, OR EARLY FRAME—A vigorous and productive variety, producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table or pickling.

EARLY WHITE SPINE—One of the best sorts for trade use, fruiting early and abundantly; fruit uniformly straight and handsome; light green, with a few white spines.

THE NEW DAVIS PERFECT—This cucumber has an ideal shape and a beautiful dark green color, which it holds extremely well during the slicing season. Its eating qualities are unsurpassed, both because of its fine flavor and its small number of seeds, which, during the slicing period, are so small and tender as to be practically unnoticed; believe it will produce more fruit than any other variety ever grown. Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb.,

30c; ½ lb., 50c; 1 lb., 90c; postpaid. At purchaser's expense, 1 lb., 85c; 5 lbs., \$4.00; 10 lbs., \$7.50.

LONG GREEN—Produces dark green fruit from 10 to 14 inches long. Flesh solid, crisp and of fine quality. Fine for slicing and pickling. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c; postpaid. At purchaser's expense, 1 lb., 70c; 5 lbs., \$3.15; 10 lbs., \$6.50.

BOSTON PICKLING—This variety is very popular with our gardeners to grow for pickles. Fruit small, smooth, bright green and good quality. A great producer.

WEST INDIA GHERKIN—This variety used exclusively for pickling, a distinct species from the common cucumber. It is a vigorous grower and consequently should be planted 6 feet apart. The fruit is very small, almost round and closely covered with spines. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.10; 1 lb., \$2.00.

JAPANESE CLIMBER—A sort of pole cucumber, its name being due to its tendency to climb and bear its fruit up from the ground, if afforded support; fruit large and thick. Pkt., 5c; oz., 15c.

All varieties of cucumbers unless otherwise quoted: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 70c; postpaid. At purchaser's expense, 1 lb., 65c; 5 lbs., \$3.25; 10 lbs., \$6.00.

Corn--Sweet

CULTURE

Sweet corn should not be planted deeper than one inch to one inch and a half, as it is liable to rot in the ground, especially if the ground has not become warm. Hoe often, drawing the earth against the stems and break off the side shoots.

First Early

PEEP O' DAY—For earliness, flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short western summers. Pkt., 15c; 1 lb., 20c; postpaid. At purchaser's expense, Pkt., 10c; lb., 15c; 2 lbs., 25c; 5 lbs., 60c; 10 lbs., \$1.10.

GOLDEN BANTAM—Of extreme hardiness, this can be planted earlier than any other true sweet corn, and will then produce the earliest supply of ears for the table. The stalks grow from three and one-half to four feet in height and produce one or two good ears on each stalk. The ears are about six inches in length, completely filled with eight rows of golden-yellow grains, extending to the rounded tip. The flavor is exceptionally rich and sugary, "the sweetest of all." Pkt., 15c; 1 lb., 20c; postpaid. At purchaser's expense, pkt., 10c; 1 lb., 15c; 5 lbs., 65c; 10 lbs., \$1.25.

EARLY MINNESOTA—A splendid standard variety; grains sweet and tender; ears are of good size and eight and ten rowed; very productive. Pkt., 15c; 1 lb., 20c; postpaid. At purchaser's expense, pkt., 10c; lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 10 lbs., 90c.

WHITE COB CORY—An early, old established variety; ears six inches long, eight rowed. A splendid market garden variety and excellent for the table. Pkt., 15c; lb., 20c; postpaid. At purchaser's expense, pkt., 10c; lb., 15c; 2 lbs., 25c; 5 lbs., 55c; 10 lbs., \$1.00.

Medium Early

EARLY EVERGREEN—This fine variety yields large, handsome, ten and twelve rowed ears, aver-



aging about nine inches in length. It is very sweet, has a fine flavor and remains tender a remarkably long time. Pkt., 15c; lb., 20c; postpaid. At customer's expense, pkt., 10c; lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 10 lbs., 90c.

MEXICAN WHITE—Very sweet and delicious; stalks grow about four and a half feet high; ears eight or nine inches in length and usually eight rowed.

BLACK MEXICAN—This corn, when in condition for the table, cooks remarkably white, but the ripe grain is black or bluish black. It is surpassed by none in tenderness and fine quality.

COUNTRY GENTLEMAN—A favorite second early or main-crop variety with all private gardeners for its tenderness, delicacy, small, deep grains, and sweetness. The ears are of fair size, frequently three or four to the stalk.

Country Gentleman, Black and White Mexican: Pkt., 15c; lb., 20c; postpaid. At purchaser's expense, pkt., 10c; lb., 15c; 2 lbs., 30c; 5 lbs., 55c; 10 lbs., \$1.00.

Late

STOWELL'S EVERGREEN—The standard main crop variety. Large, well formed ears, deep grained; very sweet and sugary. It is hardy and productive and altogether the best late kind. Pkt., 15c; lb., 20c; postpaid. At customer's expense, pkt., 10c; lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 10 lbs., 90c.

Corn--Field

Corn growing is becoming more and more a staple product in the Northwest and experiments have shown that with carefully prepared fertile soil the difference in seed has made a difference in the yield of double the bushels per acre. It has been fully demonstrated that home grown seed will mature a great deal better than seed secured from the East. We therefore draw special attention to our home grown Minnesota King and our home grown White Cap Dent.

SQUAW—Extremely early, and rather dwarf. Produces an ear from 7 to 8 inches in length and is a heavy yielder. Lb., 20c; postpaid. At purchaser's expense, 2 lbs., 25c; 5 lbs., 50c; 10 lbs., 90c; 50 lbs., \$2.75; 100 lbs., \$5.00.

EARLY WISCONSIN WHITE DENT—The stalks grow to an average height of 8 feet, and are thickly furnished with foliage close to the ground. The ears are large, with 16 to 20 rows of large, deep kernels, which are closely set on a small white cob. Lb., 15c; postpaid. At purchaser's expense, lb., 10c; 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.50.

FLINT YELLOW EARLY EIGHT-ROWED, OR EARLY CANADA—The great Yellow Flint Corn—the corn for the extreme north. The greatest of all the Flint varieties. Ears long, of rich yellow color. Will prove to be of the greatest value to the farmers of the far north. Ripens earlier than any of the Flints. Lb., 15c; postpaid. At purchaser's expense,

CORN—Continued

lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00.

MINNESOTA KING (Home Grown)—We regard this corn in some respects as the most valuable early corn for the Inland Empire. It seems to possess a faculty of growing right along and making a crop during weather and under conditions that would ruin other varieties. In appearance the Minnesota King is remarkably distinct, being a half yellow dent, the kernels are very broad and are a rich golden color. **Lb., 15c, postpaid.** At purchaser's expense, lb., 10c; 5 lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50.

WHITE CAP DENT—This is home grown, having been continuously grown on a farm in the vicinity of Marcus for the past six years. The experience of this progressive farmer has been that this variety is much more profitable than any other variety he has tried. It ripens early and matures well. Stalks grow to a height of from 7 to 9 feet and produce 14 and 18 rowed ears that are solid and handsome. This being fully acclimated, will mature under any reasonable conditions.

It's early. Productive. Fully acclimated. Very highly recommended. A sure cropper.

1 lb., 15c, postpaid. At purchaser's expense, lb., 10c; 5 lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50.

MINNESOTA NO. 13—The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties for Northern planting are: Its earliness, its enormous productiveness, its adaptability to a great variety of soils and climates. The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels plump and of good color. The stalks grow to a height of seven feet and being leafy make excellent and very nutritious fodder. A variety of corn which shows such valuable characteristics is an acquisition on any farm, especially for planting in the Northwest where early frosts are common. **Lb., 15c, postpaid.** At purchaser's expense, lb., 10c; 5 lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50.

FODDER

PRIDE OF THE NORTH—(Yellow Dent)—This is a standard early variety of corn in the East, but is not sure to mature here; in fact, we have been unable to procure any home-grown seed. From the fact that it produces a large amount of fodder and being early enough to get in proper condition for ensilage, it has taken the lead over all other corns for this purpose. **Lb., 15c, postpaid.** At purchaser's expense, lb., 10c; 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.50.

POP

WHITE RICE—The best corn for popping and for the general market; early, white pointed kernels. **Lb., 20c, postpaid; express or freight, 10 lbs., 90c.**

CRESS

WATER—A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged. Sow the seed thinly along the banks of any shallow stream early in the spring. **Pkt., 5c; oz., 30c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.25.**

PEPPER GRASS (Curled)—The leaves, when young, have a warm, pungent taste, and are used as a salad, either alone or mixed with other salad plants. As they are milder and more tender when young, the seed should be sown at intervals of 10 to 15 days, making the first sowing as soon as the ground can be prepared. **Pkt., 5c; oz., 10c; ¼ lb., 20c; ½ lb., 30c; 1 lb., 50c.**

ENDIVE



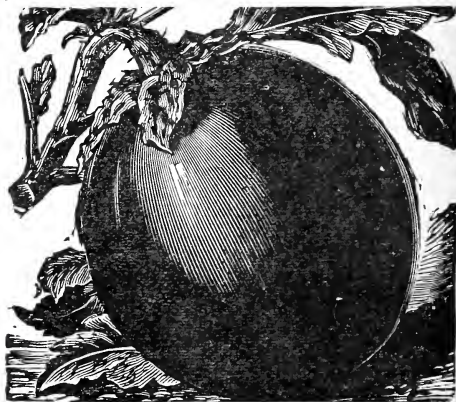
This is one of the most refreshing and attractive of all autumn and winter salads. It is most appetizing when served mixed with lettuce, with French dressing. Sow seed from middle of June to last of August.

LARGE GREEN CURLED—A fine market sort tender, green, leaves; blanch white; hardy. **Pkt., 5c; oz., 10c; ¼ lb., 30c; ½ lb., 55c; 1 lb., \$1.00.**

BROAD LEAVED BATAVIAN—Leaves are broad thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched, form one of the best winter salads. Crisp tender and fine flavor. **Pkt., 5c; oz., 10c; ¼ lb., 30c; ½ lb., 55c; 1 lb., \$1.00.**

EGG PLANT

CULTURE—Sow in hotbeds very early in the spring; transplant to 2 or 3 feet apart in very rich warm ground. Do not plant them outside till nights have been warm, as the least frost, or cold nights will greatly retard their growth.



Improved New York

BLACK BEAUTY—This beautiful egg plant is 10 days earlier than the New York Improved. The fruit is broad and thick, of most attractive form and does not fade or change to a lighter color at the blossom end. The fruits set freely and are ready for market early, so the crop can be gathered before danger of frost. **Pkt., 10c; oz., 40c; 2 oz., 75c; ¼ lb., \$1.25; ½ lb., \$2.25; 1 lb., \$4.00.**

NEW YORK IMPROVED—This is a standard variety, both for market and home garden; a favorite everywhere. **Pkt., 10c; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.00.**

GARLIC

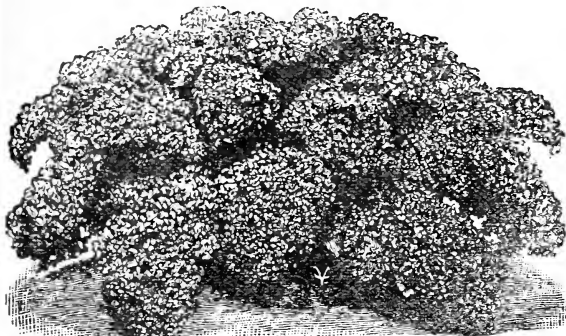
Has a bulbous root, with a strong, penetrating odor and flavor. Belongs to the onion family and cultivated much in the same manner. We cannot offer seed, but can supply the bulbs or sets.

This is extensively used in many places for flavoring soups, stews, etc. The sets should be planted early in spring and treated like onions. **Lb., 30c, postpaid.**

KALE OR BORECOLE

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves, that are tender and of excellent flavor. It requires the same treatment as cabbage, and is very hardy, being improved by frost.

KALE



TALL GREEN CURLED SCOTCH—Produces an abundance of dark green, curled leaves. Very hardy. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; $\frac{1}{2}$ lb., 40c; lb., 70c.

DWARF GREEN CURLED SCOTCH—Plant low and compact, but with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; $\frac{1}{2}$ lb., 40c; lb., 70c.

THOUSAND HEADED—The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific coast dairy and stock men. Endorsed by agricultural colleges and government stations. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 35c; lb., 60c.

KOHL-RABI



The Kohl-Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of each. The edible part is a turnip-shaped bulb, formed by the enlargement of the stem. When used for the table this should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy.

EARLY WHITE VIENNA—The earliest and best for forcing; very tender; excellent for table use. Pkt., 5c; oz., 20c; 2 lb., 35c; $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 90c; lb., \$1.50.

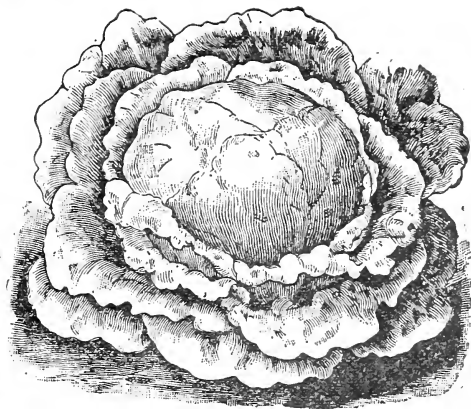
Lettuce

CULTURE—Sow every month as soon as the ground is open, in drills one foot apart, covering the seeds about one-quarter of an inch deep and thinning out to 6 or 8 inches in the row. For a cut salad sow thicker and do not thin out. They do best in rich and moist soil.

Early and Forcing

MAY KING—The plants are of quick growth, practically all head and extremely handsome. They grow quickly to a diameter of six to seven inches with the broad, light green outer leaves folding closely about the round solid head. The inner leaves (practically the entire head) are blanched to a rich golden yellow and have a specially fine, rich, buttery flavor.

GRAND RAPIDS (Seed Black)—As a lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being ready to cut. The plant is upright and forms a loose head or cluster of large, bright leaves, slightly crimped and blistered and rather thin.



BIG BOSTON—It is an early variety of Head Lettuce either for forcing or open ground. It forms large, solid heads of a good light green color, and is very slow to go to seed. The leaves are beautifully marked and blistered and very crisp and tender and of excellent flavor.

Loosehead or Cutting

PRIZEHEAD (W. S.)—Large, loose-headed sort, the leaves are tinged with brown, very heavy.

All lettuce unless otherwise quoted:

EARLY CURLED SILESIA—One of the best curled varieties for early sowing out of doors. Very popular with market gardeners and private planters.

BLACK-SEEDED SIMPSON—Very large, loose heads of curly, golden-yellow leaves, which are thin and tender. It stands summer heat splendidly and is valued for frame culture.

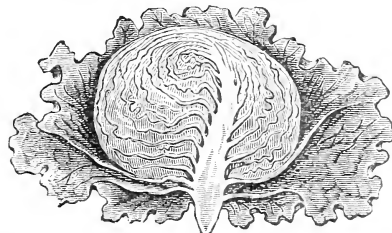
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; $\frac{1}{2}$ lb., 55c; lb., \$1.00.

Butterhead

SALAMANDER—A bright green attractive summer variety, producing large, solid heads, very smooth, tender leaves, and of the finest quality.

Head Lettuce

IMPROVED HANSON—It is a fine heading variety of the largest size; solid, sweet, tender and crisp throughout, and entirely free from any bitter taste.



ICEBERG—Has an unusually solid head. The white main ribs of the leaves curve toward the center, which keeps the interior thoroughly bleached. It is quickly growing and always crisp and tender.

CRISP-AS-ICE—It is a beautiful lettuce of the cabbage type. The solid heads are of great size, and leaves so tender and brittle as to have suggested the name bestowed upon it. The head has a rich, yellow heart.

New York or Wonderful

The mammoth heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. New York is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head. Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 70c; lb., \$1.25.

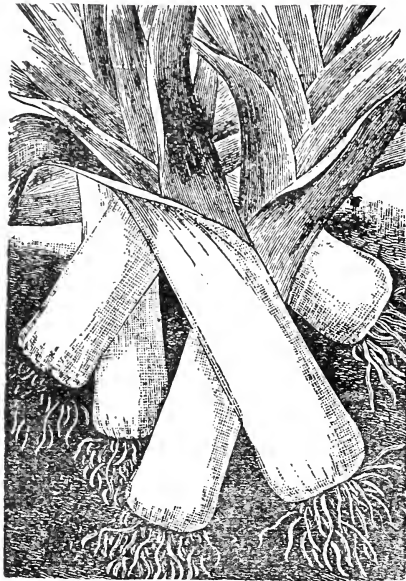
Cos Lettuce

PARIS WHITE COS—The Cos Lettuce differs entirely in shape from other varieties, the head being

LETTUCE—Continued

elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. To be had in perfection it requires to be tied up to insure blanching.

All lettuce unless otherwise quoted: Pkt., 5c; oz., 10c; ¼ lb., 30c; ½ lb., 55c; 1b., \$1.00.

LEEK

LARGE LONDON, OR SCOTCH FLAG—This leek is generally considered more delicate than the onion for soup, etc., etc. Sown in seedbed middle of spring; when the plants are three or four inches high, transplant them into rows wide enough apart to admit the hoe between them. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; 1b., \$1.25.

MUSHROOM SPAWN

With intelligent care and good spawn, mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a greenhouse, where the temperature can be kept from 50 to 60 degrees.

LAMBERT'S PURE CULTURE—A new kind of spawn, without a doubt the best. It comes in bricks, weighing about 20 ounces. These are broken

up into pieces the size of a walnut and put into the bed one foot apart each way. Brick, 35c, postpaid. At purchaser's expense, brick, 25c; 5 bricks, \$1.00.

Illustrated book on Mushroom Culture, containing the latest methods of raising, preserving and cooking mushrooms, 15c, postpaid.

MUSTARD

MUSTARD is used alone as "greens" or with cress as salad. Sow any time in the spring, in rows

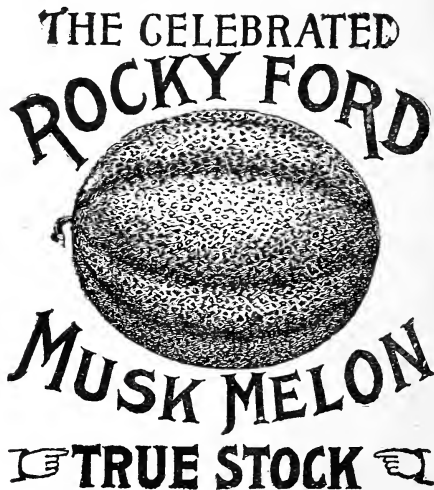
SOUTHERN GIANT CURLED—Sweet flavor, pungent and succulent. Pkt., 5c; oz., 10c; ¼ lb., 20c; ½ lb., 30c; 1b., 50c.

WHITE ENGLISH—Leaves mild and tender when young; seeds yellow. Pkg., 5c; oz., 10c; ¼ lb., 15c; ½ lb., 25c; 1b., 40c.

Musk Melons

There is not anything more refreshing than a fine flavored musk melon or canteloupe. It may seem strange to some that the selection of the seed would have anything to do with this flavor. There is a flavor peculiar to each distinct variety, and this can only be obtained when the varieties are kept to their well-known standard, and they can only be kept up to this standard by a very careful selection of the melons from which the seed is saved. Our growers have always this thought in mind, hence the seed furnished us by our careful and intelligent growers will give best results on account of its careful selection. In quality our seed is not to be compared with ordinary seeds, and if we should charge a little more than some other seed houses, bear in mind that we are giving full value.

CULTURE—The seed should not be planted until the soil has become thoroughly warmed, about transplanting time. Plant five or six seeds to the hill, in hills four to six feet apart. Rich soil or well-rotted manure should be used in the hills.

**Green-Fleshed Varieties**

THE ROCKY FORD is a new and most valuable introduction, and has attained in an incredibly short time a national reputation. It is of the Netted Gem type, oval in shape, averaging from four and one-half to five inches in length, of a delicious flavor, very fine and smooth grained flesh, of a light green color throughout which ripen.

This melon has proved to be very profitable, hence popular on account of its superior quality and its ready sale on the market.

Pkt., 5c; oz., 15c; ¼ lb., 30c; ½ lb., 45c; 1b., 80c. At purchaser's expense, 1b., 75c; 5 lbs., \$3.00; 10 lbs., \$5.50.

HACKENSACK EXTRA EARLY IMPROVED—A selection from and an improvement on the old Hackensack, and similar in shape and appearance; nearly as large and fully 10 days earlier; one of the finest for market gardeners; quality perfect.

PEACH OR GARDEN LEMON—The fruit is about the size of a large peach, oval shaped and of a bright orange yellow color, somewhat russeted. When it first ripens it is quite hard and has very little flavor, but they soon become mellow, and have a rich flavor. For sweet pickles, pies or preserving they are superb. Pkt., 5c; oz., 25c.

LARGE YELLOW CANTELOUPE—The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

MUSK MELONS—Continued

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; ½ lb., 55c; lb., \$1.00.

All varieties of Musk Melons not otherwise quoted: **Pkt., 5c; oz., 15c; ¼ lb., 35c; ½ lb., 50c; lb., 90c.** At purchaser's expense, lb., 80c; 5 lbs., \$3.50; 10 lbs., \$6.00.

EARLY PROLIFIC NUTMEG—Fruit of medium size, slightly ribbed, globular. Skin dark green, becoming yellow when overripe, and nearly covered with broad, shallow netting.

POLLOCK'S RUST-RESISTANT—Mr. Pollock originated the melon bearing his name by selecting seed from a plant which had not rusted out of a field that the rust had destroyed. This point has been observed in selecting stock seed until the melon, while not being perfectly rustproof, is practically so. The main difference between it and the original, old style, Rocky Ford is more uniformity. **Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; ½ lb., 70c; lb., \$1.25.** At purchaser's expense, lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$8.00.

Salmon-Fleshed Varieties

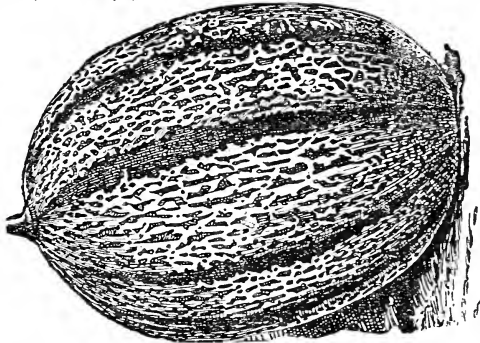
EMERALD GEM—This is a new variety of excellent quality of medium size. The skin, white-ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a deep salmon color, and ripens to the green rind. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early.

OSAGE OR MILLER'S CREAM—The skin is very thin, of a dark green color and slightly netted. The flesh is of a salmon color, remarkably sweet, extremely thick, and delicious to the rind. It is also very productive. It is a remarkable keeper, and will stand shipping.

PAUL ROSE—A new variety. A successful cross between the Osage and Netted Gem. It combines the sweetness of the former with the fine netting of the Gem and is even a better shipper than that variety. The melons grow uniform in shape and size. The flesh is remarkably thick, making the melons very solid and heavy, and of a beautiful

salmon or orange color; deliciously sweet and melting.

All varieties of musk melons, unless otherwise quoted: **Pkt., 5c; oz., 15c; ¼ lb., 35c; ½ lb., 50c; lb., 90c.** At purchaser's expense, lb., 80c; 5 lbs., \$3.50; 10 lbs., \$6.00

**Burrell Gem**

BURRELL GEM—Burrell's Gem has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about 4½ inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon will quickly decay. **Pkt., 5c; oz., 15c; ¼ lb., 35c; ½ lb., 55c; lb., \$1.00.** At purchaser's expense, lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.00.

BANANA—Melons very slender and two or three feet long. A very fragrant variety, and if not picked until thoroughly ripe, of very good quality. Its flesh and flavor, as well as its shape, remind one of a great, luscious banana. **Pkt., 5c; oz., 25c.**

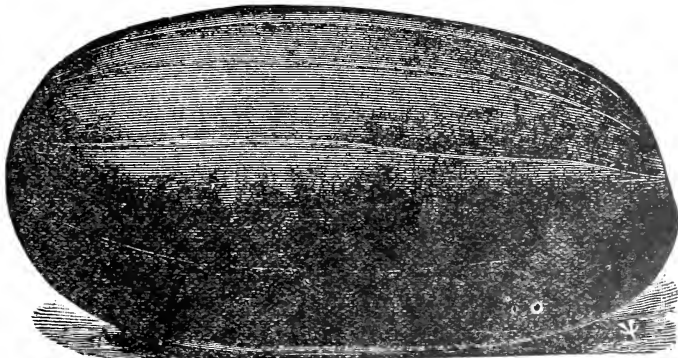
Watermelons

Watermelon seed, like all other seeds, should be selected from true types and from melons that have attained a large growth and ripened early. This method will produce and preserve true strains, while the generally followed plan of saving seed from all melons grown in a field without reference to size, shape, or time of ripening, will cause types and quality to deteriorate. Our growers give a great deal of time, thought and expense to the thorough selection of the seed furnished us. Under these conditions we are obliged to pay a higher price for the seeds we secure than we would for ordinary seed, but we have the great satisfaction of knowing that we are supplying our customers with a very much higher grade of seeds than is usually supplied by seed houses.

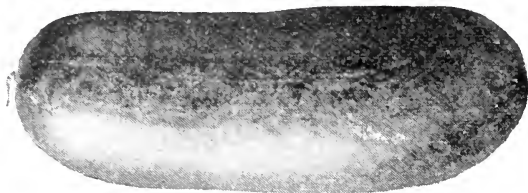
CULTURE—Watermelons thrive best on light, well drained soils, but give good results on any good rich garden soil that is properly drained and cultivated. Plant after the weather is settled and ground warm. Hills should be eight feet apart each way and with well rotted manure thoroughly worked into each hill.

KLECKLEY'S SWEETS, OR MONTE CRISTO—This is one of the best flavored melons in cultivation, and of a shape and color that is extremely desirable. The rind is very dark green, very thin, flesh deep scarlet, fine, and of delicious quality. For the home market and family garden it is decidedly one of the best.

HALBERT HONEY—A new, exceedingly sweet and deliciously flavored melon, similar in size and shape to Kleckley's Sweets. It is of handsome, long, oval shape, averaging about 18 inches in length and about 6 inches in diameter. The skin is an attractive, very dark green; the flesh is of a beautiful bright red, extending almost to the outer rind. The rind, too, is so thin and brittle that it cracks open very easily and will not stand hauling or shipping long distances. **Pkt., 5c; oz., 10c; ¼ lb., 25c; ½ lb., 40c; lb., 75c.** At purchaser's expense, lb., 70c; 5 lbs., \$3.00; 10 lbs., \$5.50.

**Kleckley's Sweet**

WATERMELONS—Continued



Tom Watson

TOM WATSON—A large, oblong melon, the skin of which is dark green, with thick netting on the entire surface, quite distinct from other varieties. It averages 18 to 24 inches long and 10 to 12 inches in diameter. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. The heart is large with no core. The seeds are brown, tipped with white. The appearance and quality of this melon make it desirable for both home and market use. Pkt., 5c; oz., 10c; ¼ lb., 25c;

½ lb., 40c; 1 lb., 75c. At purchaser's expense, 1 lb., 70c; 5 lbs., \$3.00; 10 lbs., \$5.50.

FORDHOOK EARLY—An extra early watermelon of large size. The rind is tough, making it desirable for shipping purposes. Flesh is light red and is very sweet.

ICE CREAM, OR PEEBLESS—One of the best melons in cultivation. Rind thin, light, mottled green. Flesh bright scarlet; solid to the center; sweet as honey.

FLORIDA FAVORITE—Oblong in shape, growing to a very large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet.

CUBAN QUEEN—A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped, dark and light green.

All melons not otherwise quoted: Pkt., 5c; oz., 10c; ¼ lb., 25c; ½ lb., 35c; 1 lb., 60c. At purchaser's expense, 1 lb., 55c; 5 lbs., \$2.50; 10 lbs., \$4.50.

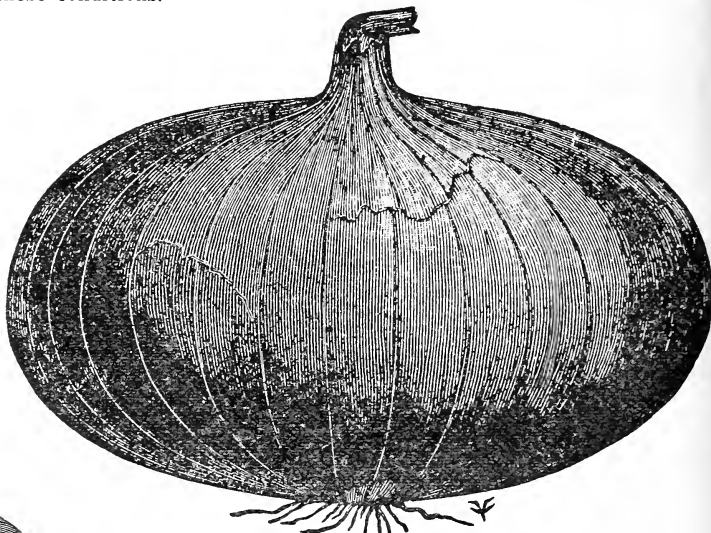
CITRON—For preserving; grows uniformly round and smooth; striped and marbled with light green; flesh white and solid. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 80c.

Onions

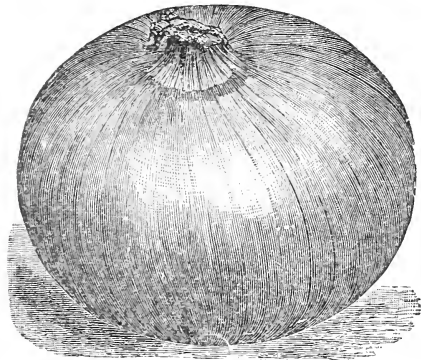
It is readily seen that there is a great variety and diversity in the shape, color, size, and flavor of onions, also in their keeping qualities. The keeping is due in some respects to the different varieties, but the conditions under which onions are grown, add greatly or detract proportionately from their keeping qualities. The most of the onions grown in this country are grown in California, where the bulbs are harvested in August or September, and replanted for seed that same fall, therefore long keeping qualities in the bulbs are not required under these conditions.

In Europe and England the bulbs are harvested in fall, then stored to the following April, and replanted. It will be thus seen that these bulbs must have good keeping qualities or they would not keep in perfect order to April or later. We secure nearly all our seeds from Europe and England on account of their superior keeping qualities, purer seed and better types. Why not secure this seed so that you can the more easily keep your onions until spring and secure the high prices then generally prevailing.

CULTURE—Onions do best on a rich loam, previously cultivated for two years. The land should be highly fertilized with well-rotted manure, or complete fertilizers. Culture should be frequent, though shallow. The same ground may be used for onions season after season, if well fertilized annually. Bone meal is an excellent fertilizer. Winter storage demands dryness and protection from sudden changes. Onions should never be handled while frozen.



Red Wethersfield



Yellow Danver

Yellow

YELLOW DANVERS—The leading large yellow kind, round, slightly flattened, flesh fine-grained, rather mild, very rich and sweet; one of the best keepers and shippers, and one of the most productive kinds. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 65c; 1 lb., 1.20. At purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00; 10 lbs., \$9.00.

YELLOW GLOBE DANVERS—This is the standard variety for winter use, producing well-ripened bulbs averaging two inches in diameter and nearly yellow; flesh pure white, crisp and mild in flavor. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; ½ lb., 70c; 1 lb., \$1.30. At purchaser's expense, 1 lb., \$1.25; 5 lbs., \$5.75; 10 lbs., \$10.00.

OREGON YELLOW DANVERS—It is a cross between the flat and the globe, one of the best keepers for our western climate. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 80c; 1 lb., \$1.50.

MAMMOTH PRIZE-TAKER—Genuine seed of this variety produces the handsomest, largest Yellow Globe onion in the list. The yield per acre is larger than that of any other variety. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; 1 lb., \$1.25. At purchaser's expense, 1 lb., \$1.20; 5 lbs., \$5.25; 10 lbs., \$9.50.

Brown

AUSTRALIAN BROWN—Of medium size, though growing quite large under favorable conditions. Wonderfully hard and solid. The bulbs are most attractive for market, both as to form and appearance. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 65c; 1 lb., \$1.20. At purchaser's expense, 1 lb., \$1.15; 5 lbs., \$5.00. 10 lbs., \$9.00.

ONIONS—Continued

White

SILVER KING—This is a grand onion. It is a mammoth grower, of beautiful pearly white color, almost transparent in appearance. To match Spanish King at fairs and exhibitions it is just what is needed.

WHITE GLOBE—A handsome, white, globe-shaped variety; flesh fine, very white, rich and sweet; it is also one of the best keepers of the silver-skinned kind.

Silver King and White Globe: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.10; lb., \$2.00. At purchaser's expense, lb., \$1.95; 5 lbs., \$9.25; 10 lbs., \$17.50.

WHITE PORTUGAL, OR AMERICAN SILVER-SKIN—Produces early onion of mild flavor; largely used for growing sets and pickles.



WHITE QUEEN, OR BARLETTA—Remarkable for its earliness and mild flavor; it is small and white-skinned; the leading variety for pickling purposes.

White Portugal and White Queen: Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 90c; lb., \$1.75. At purchaser's expense, lb., \$1.70; 5 lbs., \$7.90; 10 lbs., \$14.50.

BERMUDA—The skin is very thin; flesh white, fine-grained, of mild and pleasant flavor. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; lb., \$2.25.

Red

RED GLOBE—This beautiful strain of Red Globe onion surpasses all others in earliness, productiveness, perfection of shape, uniformity of size, richness of color and long-keeping qualities. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; ½ lb., 85c; lb., \$1.55. At purchaser's expense, lb., \$1.50; 5 lbs., \$7.00; 10 lbs., \$13.00.

EXTRA EARLY RED FLAT—Deep red in color; resembles the Red Wethersfield, except that it is much earlier and somewhat smaller; desirable for early market.

LARGE RED WETHERSFIELD—The standard red variety. Bulb large and somewhat flattened, oval-shaped; skin deep purple red; flesh purplish white, moderately fine grained and rather strong flavor. Very productive.

Early Red and Red Wethersfield: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; lb., \$1.25. At purchaser's expense, lb., \$1.25; 5 lbs., \$5.25; 10 lbs., \$9.50.

Growing Onions

Is Very Profitable
and Easy to Cultivate

OKRA OR GUMBO

The pods, sliced, are esteemed for soups, stews, etc., and whether used green or dried, must be gathered when young.

WHITE VELVET, HENDERSON'S—Large, round, smooth pods; never ridged; prolific. Pkt., 5c; oz., 10c; ¼ lb., 25c.

ONION SETS

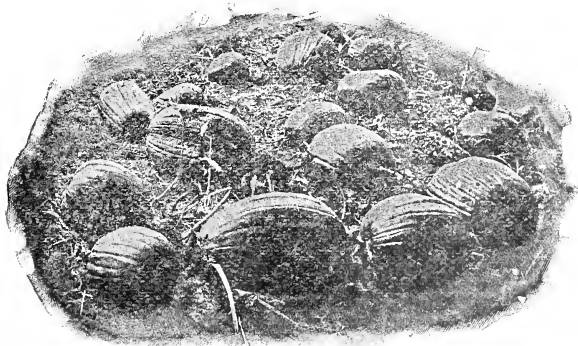


BOTTOM SETS—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown direct from the seeds. We have contracted for this spring's trade two cars of these sets, amounting to 70,000 pounds. This is the first time in the history of Spokane that any seed house in Spokane has contracted for such a large amount.

YELLOW—1 lb., 20c, postpaid. For large quantities, write for prices.

Pumpkins

CULTURE—Sow in good soil, when the ground has become warm, in hills eight or ten feet apart each way, or in fields of corn about every fourth hill.



Connecticut Field

CONNECTICUT FIELD—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it makes good pies.

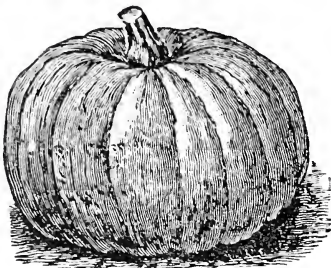
BIG TOM—This is one of the largest, most uniform growing and productive varieties known.

KENTUCKY FIELD, OR LARGE CHEESE—Fruit flattened, the diameter being two or three times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality.

MAMMOTH PRIZE—The largest pumpkin grown; has attained a weight of 225 pounds. If you wish to see just how large a pumpkin can grow, try the Mammoth Prize. The quality is excellent. Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb., 30c; ½ lb., 55c; lb., \$1.00. At purchaser's expense, lb., 95c; 5 lbs., \$4.50; 10 lbs., \$8.00.

PUMPKINS—Continued

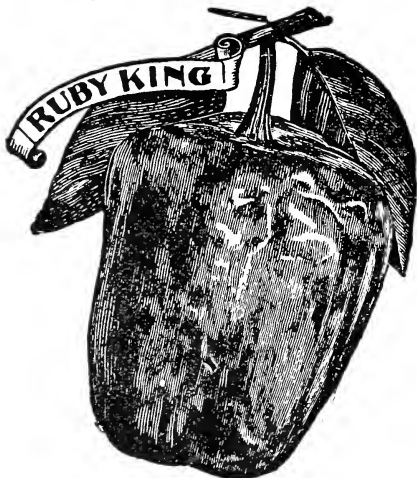
All pumpkins not otherwise quoted: **Pkt.**, 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 30c; 1b., 50c. At purchaser's expense, 1b., 45c; 5 lbs., \$2.00; 10 lbs., \$3.50.

**Early Sugar**

EARLY SUGAR—Fine-grained, sweet and prolific; small in size, but one of the best for pies. **Pkt.**, 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 35c; 1b., 60c. At purchaser's expense, 1b., 55c; 5 lbs., \$2.50; 10 lbs., \$4.50.

Peppers

CULTURE—Sow the seeds early in hotbeds, or later, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart at one foot apart in the row.



RUBY KING—It is very bright colored, beautiful, sweet and mild flavored. **Pkt.**, 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

LARGE BELL, OR BULL NOSE—A large, mild, thick-fleshed variety. One of the best for stuffed pickles. **Pkt.**, 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

LONG RED CAYENNE—Brilliant coral-red pods, three or four inches long, and a prolific bearer; very pungent and used very largely with pickles when green. **Pkt.**, 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

RED CHILI—Small, bright red peppers, very hot and pungent, and generally used for making "pepper sauce"; very prolific. **Pkt.**, 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

RED CHERRY—Fruit cherry shaped, small, round, bright red. Largely used for pickles. **Pkt.**, 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

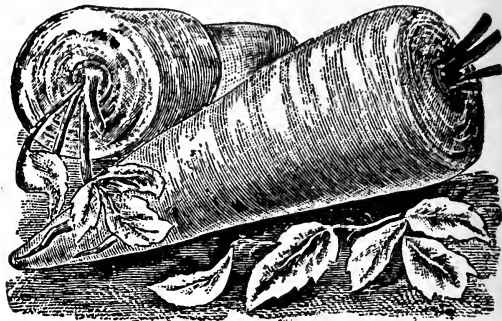
Peas--Garden

Our peas are grown in the Inland Empire under our own supervision and have been very carefully rogued by us, thus insuring peas of the very best possible type. One grower alone raised for us 70,000 pounds of garden peas; besides these we had three other farmers growing for us. These have all been brown by men of experience and in the very choicest places of the Inland Empire. Our immense trade on peas demonstrates their reliability and popularity.

Parsnips

CULTURE—Parsnips do the best in rich, deep soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate, it should be sown as early as possible.

IMPROVED GUERNSEY (Improved Half-Long)—A greatly improved and wonderfully fine strain of Guernsey parsnip. It is a very heavy cropper. The roots are very smooth, the flesh is finely grained and of most excellent quality.



LONG SMOOTH, OR HOLLOW CROWN (Abbott's Improved Long Sugar, or Long White Dutch Parsnip)—A great chopper; tender, sugary, and considered the best for general cultivation. Parsnips are improved by remaining exposed to the frost.

Both varieties of parsnips: **Pkt.**, 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 35c; 1b., 65c. At purchaser's expense, 1b., 60c; 5 lbs., \$2.65; 10 lbs., \$4.50.

PARSLEY

Very useful for flavoring soups, meats and for garnishing. The green leaves are used for flavoring.

CHAMPION, MOSS CURLED—A compact growing, finely cut and much curled variety of bright green color. **Pkt.**, 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 35c; 1b., 65c.

PEANUTS

The peanut thrives and produces best on a light, sandy, fertile soil with a good clay subsoil. It possesses a long tap-root which extends deep into the earth. **Per lb.**, 30c, postpaid.

PEAS—Continued

We want to lay special emphasis on Gradus, Potlatch and Laxtonian. These are all large podded, exceptionally fine flavored, large and good producers. We have spent time and money in bringing these varieties to their present high state of perfection. Our customers will not be disappointed by giving one or all of these a trial.

Extra Early

ALASKA, OR EARLIEST OF ALL—Earliest and best of all the blue smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of pods is unequaled by any other pea. Vines two to two and one-half feet high. A great favorite with our market gardeners for fall and early spring planting. Pkt., 15c; lb., 20c; postpaid. At customer's expense, pkt., 10c; lb., 15c; 5 lbs., 60c; 10 lbs., \$1.15; 25 lbs., \$2.25; 50 lbs., \$4.00; 100 lbs., \$7.50.

MCCLEAN'S LITTLE GEM—The vines grow about 18 inches in length, producing well filled pods of from 2½ to 3 inches long. The peas are green, wrinkled, sweet and delicious.

AMERICAN WONDER—The earliest and best of the wrinkled sorts. A great favorite for family use. Has stout, branching vines about 10 or 12 inches high, and covered with well-filled pods, containing sweet, tender and well flavored peas.

NOTT'S EXCELSIOR—The best early dwarf pea. Very compact growth. Vines about 1 foot high. Pods 3 inches in length, containing from 6 to 9 large peas, which are of a very fine quality and sweet flavor.

Price of Little Gem, American Wonder and Nott's Excelsior: Pkt., 15c; lb., 25c; postpaid. At purchaser's expense, pkt., 10c½ lb., 15c; 5 lbs., 65c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.50; 100 lbs., \$8.00.

SECOND EARLY

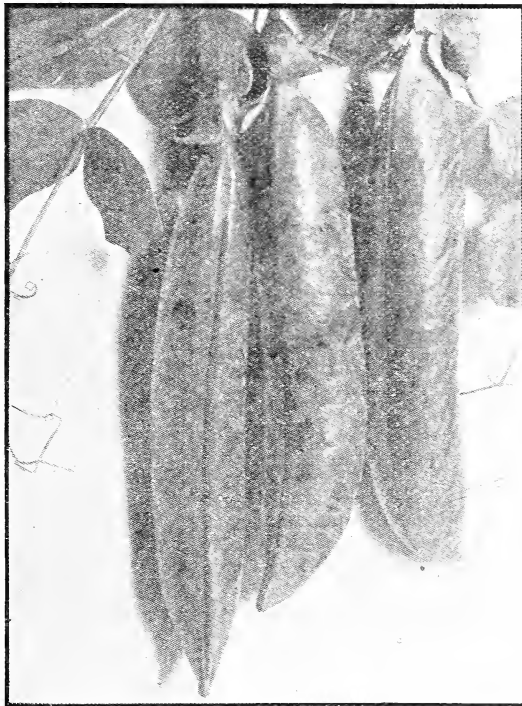
GRADUS—This bears pods of large size, and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; grows vigorous and healthy; pods are large, well filled, containing 7 to 9 peas; vines two and a half feet in height; very prolific. The quality and flavor are delicious, and the peas remain tender and sweet for a long time. Pkt., 15c; lb., 25c; postpaid. At purchaser's expense, pkt., 10c; lb., 20c; 5 lbs., 85c; 10 lbs., \$1.50; 25 lbs., \$3.00; 50 lbs., \$5.00; 100 lbs., \$9.00.



Gradus

POTLATCH—A fine, new variety of great merit. The vines are vigorous, growing 15 to 18 inches high, with dark green foliage. The long pods are a rich, dark green color, often measuring six inches in length, with 8 to 9 enormous peas in a pod. The vines are sturdy and the pods are borne in pairs. It is wonderfully productive. The peas are of very fine quality, being sweet, rich and delicious.

Lb., 25c, postpaid. At purchaser's expense, lb., 20c; 5 lbs., 85c; 10 lbs., \$1.50; 25 lbs., \$3.25; 50 lbs., \$5.50; 100 lbs., \$10.00.



POTLATCH

LAXTONIAN—A new variety, of splendid quality and unusual productiveness. Vines grow from 15 to 18 inches high, pods from 4 to 4½ inches in length. Pods are of a deep bluish green, well filled and contain from 8 to 10 large peas, which are of a superior flavor, sweet and delicious. We highly recommend this new pea and believe you will not be disappointed if you give it a trial. Lb., 25c, postpaid. At purchaser's expense, lb., 20c; 5 lbs., 90c; 10 lbs., \$1.75; 25 lbs., \$3.75; 50 lbs., \$6.50; 100 lbs., \$12.00.

LATE

CHAMPION OF ENGLAND—Very rich and fine flavored; very productive; wrinkled. Height, four to five feet. Pkt., 5c; lb., 25c; postpaid; express or freight, lb., 20c; 10 lbs., \$1.50.

STRATAGEM—One of the best of the large, podded peas; the pods are of immense size, measuring 4½ to 5 inches, filled with large, dark green, wrinkled peas of the finest quality. Vine grows to a height of about 18 inches. Lb., 20c, postpaid. At customer's expense, lb., 15c; 5 lbs., 65c; 10 lbs., \$1.25; 25 lbs., \$2.25; 50 lbs., \$4.50; 100 lbs., \$8.00.

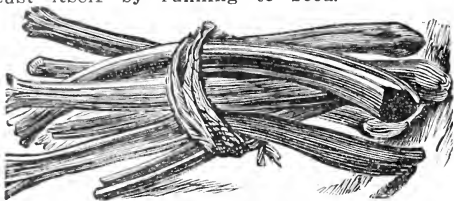
DWARF TELEPHON7—Produces handsome long pods. A great favorite with our market gardeners. Immensely productive, of the finest quality and excellent sugary flavor; vines very strong, growing from 18 to 24 inches high. The pods are of large size, filled with large, delicious peas. Pkt., 15c; lb., 25c; postpaid. At purchaser's expense, pkt., 10c; lb., 20c; 5 lbs., 85c; 10 lbs., \$1.50; 25 lbs., \$3.25; 50 lbs., \$5.50; 100 lbs., \$10.00.

MELTING SUGAR—The kind that has sweet, broad pods, and are used the same way as snap and string beans. This is the most popular of the edible podded varieties. The pods are large, straight, very tender and finely flavored. Vines medium height. Pkt., 5c; lb., 3c, postpaid.

See page 36 for Canadian, Bluefield and Cowpeas.

RHUBARB OR PIEPLANT

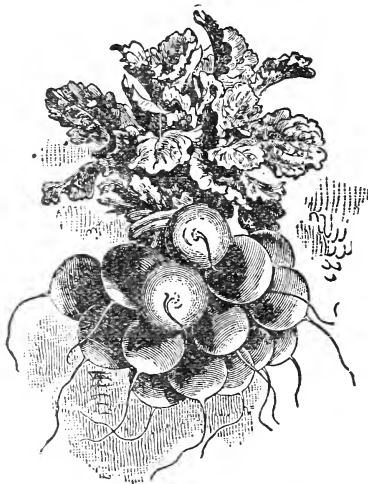
CULTURE—Sow in drills an inch deep, and thin out the plants to six inches apart. Transplant the young plants, setting them four to six feet apart each way. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed.



VICTORIA, OR MAMMOTH—Very large; finest cooking variety. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; lb., \$1.25.

Radishes

THE SECRET IN GROWING GOOD RADISHES consists chiefly in the observance on the part of the grower of three points. First, they should be grown on quick, light soil. Second, they should be given plenty of water; and last, but not by any means least, the right kind of seed should be sown. Radishes grow very quickly, and if not supplied with plenty of water are apt to be pithy.



SCARLET TURNIP WHITE-TIPPED RADISH.

EARLY SCARLET TURNIP, WHITE TIPPED—The favorite variety for outdoor cultivation; medium size, uniform shape; color bright scarlet, with white tip, which makes it most attractive. It grows quickly; flesh white, crisp and of the best quality.

EARLY ROUND DEEP SCARLET—Similar in form of the Scarlet Turnip-Rooted, but much darker in color; flesh white, very crisp and tender; top small, well adapted for growing in frames. The two foregoing varieties: Pkt., 5c oz., 10c; 2 15c; ¼ lb., 20c; ½ lb., 30c; lb., 50c. At purchaser's expense, lb., 45c; 5 lbs., \$1.75; 10 lbs., \$3.25.

EARLY CRIMSON GIANT—The largest early Scarlet Turnip-Shaped Radishes. A very early radish, double the size of any of the other early turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp and juicy, and of the mildest flavor. Excellent for both forcing and open ground. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; lb., 65c. At purchaser's expense, lb., 60c; 5 lbs., \$2.50; 10 lbs., \$4.00.

OLIVE SHAPED

FRENCH BREAKFAST, OR HALF-LONG WHITE TIPPED—Medium size, of quick growth, crisp and tender; terminates more abruptly than the Half-Long Scarlet, lower end and tap root white.

Long

EARLY LONG SCARLET—The leading variety either for the family or market garden. From six to eight inches long, standing nearly half above the ground; bright scarlet, smooth, crisp, tender and mild.

French Breakfast and early Long Scarlet: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 30c; lb., 55c. At purchaser's expense, lb., 50c; 5 lbs., \$1.85; 10 lbs., \$3.50.

IMPROVED CHARTIER—Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth, it is soon ready for the table, remaining crisp and tender until fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.



White Icicle

NEW WHITE

ICICLE—The finest of the early pure white varieties. They are long and slender and clear pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains larger size, thus remaining in condition for use for considerable time. Roots grow four inches in length and half an inch in diameter; they retain their crispness and fresh, mild flavor until fully six inches long and an inch in diameter.

LONG WHITE VIENNA, OR LADY FINGER—The best long white radish grown; pure white, long, tender and sweet; a favorite also for its beauty of form and rapid growth.

Chartier, New White, Icicle and Vienna: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; lb., 60c. At purchaser's expense, lb., 55c; 5 lbs., \$2.25; 10 lbs., \$3.75.

Winter

LONG BLACK SPANISH—Very hardy and good for winter use. Will keep good all winter. The roots, which present a rusty, black appearance, are large, firm and not liable to become pithy. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 65c.

MAMMOTH CALIFORNIA, OR WHITE CHINA—Very large and cylindrical, terminating abruptly with little tap-root; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; lb., 60c.

CHINA ROSE—One of the best fall and winter varieties. Half-long shape; upper part bright crimson, shading to white. Flesh white, firm, tender and of superior quality. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; lb., 65c.

SPINACH



It might seem to some that the item of Spinach is insignificant. We have, however, been so careful in selecting our seed and have obtained such good results for our growers by our careful selection that we have contracted for 2500 pounds to supply our trade this season. This comes from Holland, the natural home of Spinach.

SPINACH—Continued

CULTURE—It is one of the most easily managed of all vegetables, requiring but little culture. For spring and summer use sow broadcast or in drills as early as possible. Then sow at intervals for successive crops. For very early spring use it is sometimes sown in August or September, protecting it slightly during the winter.

VICTORIA—Dark, large, green leaves, of good quality. A great yielder.

BLOOMSDALE—A very early variety. Is hardy, and may be planted for early spring use.

LONG STANDING—An improved variety, slow going to seed, and perhaps the best for general use.

IMPROVED THICK LEAVED—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Best for market gardeners.

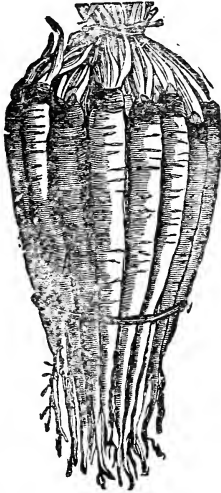
PRICKLY WINTER—A very hardy variety; will withstand the cold of winter. Seed prickly. Leaves long, pointed, and of good quality.

All varieties of spinach: Pkt., 5c; oz., 10c; ¼ lb., 15c; ½ lb., 25c; lb., 35c. At purchaser's expense, lb., 30c; 5 lbs., 1.40; 10 lbs., \$2.50.

SALSIFY OR VEGETABLE OYSTER

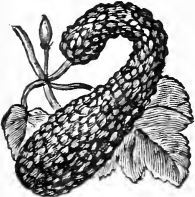
CULTURE—Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in the spring, as they deteriorate rapidly after growth commences.

MAMMOTH SANDWICH ISLAND—Of superior quality. Pure white. Very meaty and of fine flavor. Grows uniformly large. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; ½ lb., 65c; lb., \$1.00.

**Squash****SUMMER**

CULTURE—Delay sowing until the soil has become warm. The general principles of culture are the same as those given for cucumbers and melons.

The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten. Three plants are sufficient to a hill.

**Summer Crookneck**

MAMMOTH SUMMER CROOKNECK—An early prolific kind, having a solid curved neck; the skin is yellow, thin, hard and very warty, flesh tender and of good quality.

EARLY YELLOW MAMMOTH BUSH SCALLOP—An early; flat, scallop-shaped variety; color yellow; flesh pale yellow and well favored; very productive.

MAMMOTH WHITE BUSH SCALLOP—The best summer sort for the market; very productive and of good size.

Crookneck and Bush Scalops Squash: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 35c; lb., 65c. At purchaser's expense, lb., 60c; 5 lbs., \$3.75; 10 lbs., \$5.00.

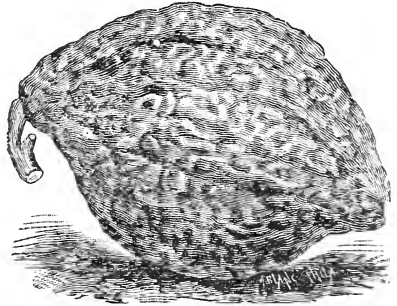
ENGLISH VEGETABLE MARROW—A favorite English variety, bearing freely oblong, dull yellow fruits 10 to 15 inches in length by 4 to 5 inches in diameter; flesh before ripe, tender, marrowy and delicious. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c.

Winter

BOSTON MARROW—A good keeper, of excellent flavor; flesh orange colored and fine grained.

MAMMOTH CHILI—The largest variety grown, having attained a weight of over 200 lbs.; round, flattened at the ends; rind deep orange; flesh deep yellow, thick and very nutritious; sometimes used for the table, but more desirable for stock feeding.

GOLDEN HUBBARD—This is a very distinct sort of the shape and general character of the Hubbard, but a little smaller; earlier to mature, and of a rich, orange-red color.

**Warty Hubbard**

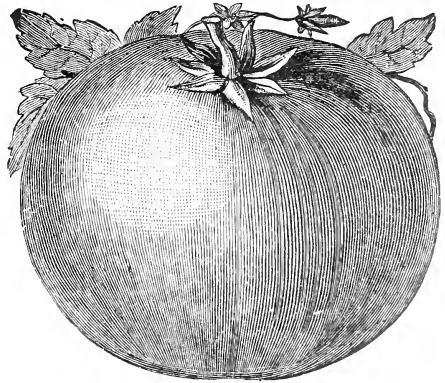
CHICAGO WARTED HUBBARD—The vines are vigorous and productive, while the large, dark, olive-green fruits are heavily warted. Very handsome in appearance; an excellent keeper and of splendid quality.

The four foregoing winter squashes: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 45c; lb., 80c. At purchaser's expense, lb., 75c; 5 lbs., \$3.50; 10 lbs., \$6.50.

NEW DELICIOUS—Average weight from five to ten pounds. Flesh exceedingly thick, fine grained and meaty and almost of mealy dryness. Color golden orange. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; ½ lb., 55c; lb., \$1.00. At purchaser's expense, lb., 55c; 5 lbs., \$4.25; 10 lbs., \$7.50.

Tomatoes

CULTURE—Sow early in hotbeds and as soon as they have four leaves transplant into shallow boxes. Harden off and set out as soon as danger of frost is over.

**Earliana**

SPARK'S EARLIANA—The earliest large and smooth tomato. The most perfect of all tomatoes. Of large, uniform size and beautiful red color. Quality almost beyond praise. A most vigorous grower and heavy bearer, continuing until frost. Spark's Earliana is as near seedless as any tomato, giving but 12 to 15 pounds of seed to the acre, while other varieties yield from 75 to 100 pounds to the acre. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.35; lb., \$2.50.

LIVINGSTON'S CORELESS—A new bright red tomato of the globe-shaped type, almost round. It is a strong grower and a heavy cropper, a grand slicing variety and ripens all over and through. Pkt., 10c; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00; ½ lb., \$1.60; 1 lb., \$3.00.

DWARF CHAMPION, OR TREE TOMATO—The plant is dwarf and compact; fruit medium size, rich, glossy red, smooth and solid; fine for private gardens. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.35; lb., \$2.50.

TOMATOES—Continued

ESSEX EARLY HYBRID—Fruit very dark and handsome; grows rather rough, but being an immense yielder it will produce as many smooth, fine tomatoes as almost any other variety. Pkt., 5c; 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.10; lb., \$2.00.

NEW TOMATO—CHALK'S EARLY JEWEL—The large, handsome fruits are very solid and deep through, being almost round or ball shaped. Color, brightest scarlet, ripening right up to the stem without any cracks. The foliage is rather sparse and open, admitting the sunlight to the center of each plant, so that all the fruits are thoroughly ripened. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.35; lb., \$2.50.

ATLANTI PRIZE (Extra Early)—A distinctly early variety, of good size and smooth surface. Many of the objections to the usual early kinds, such as undersize, deep corrugations and rough skin, are overcome in the Atlantic Prize. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.10; lb., \$2.00.

NEW STONE—Fine for main crop; very large; color bright scarlet; very smooth, ripening up to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.35; lb., \$2.50.

PEACH—This is a distinct and very attractive tomato for preserving, eating from the hand or table. Fruit resembles a peach in shape, size and color. Flesh tender and of good flavor. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

GROUND CHERRY, OR HUSK—Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk or covering. When ripe the fruits are an inch in diameter, bright yellow and of very sweet flavor; highly esteemed for preserving. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

YELLOW PEAR-SHAPED—A small-fruited variety, which is golden-yellow. It is very useful for salads. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

Turnips

Few realize the extent to which turnips and rutabagas are used for table and stock purposes. Some idea may be gained from the fact that our contracts this year called for enough seed to sow 3000 acres at the rate of 1½ lbs. to the acre. This extensive trade has been gradually built up by our supplying a superior grade of seed. A seed that will produce large, well-shaped roots, thus yielding an immense tonnage to the acre.

CULTURE—For early, sow as soon as the ground can be worked, in drills 15 to 18 inches apart, and half an inch deep. For winter use, sow during July, as early sowings are unfit for winter use.



EARLY PURPLE TOP, STRAPPED LEAVED—One of the best and most universally grown; small, erect top, round, flat; purplish red above; white underneath; flesh firm, but very tender and sweet.

EARLY FLAT WHITE DUTCH, STRAPPED LEAVED—A leading white-fleshed variety, and one of the best, either for family, market garden or field crop; it is of medium size and produces a large

crop. The flesh is firm, but tender, and of a superior rich, buttery flavor.

PURPLE TOP WHITE GLOBE—A perfect globe shape, with smooth white skin; flesh pure white, firm and crisp. Purple above ground.

These three strap-leaved varieties: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 30c; lb., 50c. At purchaser's expense, lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.50.

WHITE EGG—A quick growing egg-shaped, perfectly smooth, pure white variety, with small top and rough leaves. It grows half out of the ground; the flesh is very sweet, firm and mild.

EARLY SNOWBALL—A perfectly globe shaped, white skinned turnip. The flesh is fine grained, firm and of very delicate flavor. Very early.

POMERANIAN WHITE GLOBE STRAPPED LEAVED—This is a free growing, rough leaved sort; perfect globe shape; skin white and smooth; leaves dark green.

YELLOW ABERDEEN—Round, medium size, light yellow; stained with purple on top; produces a large crop; flesh very firm, tender and sweet.

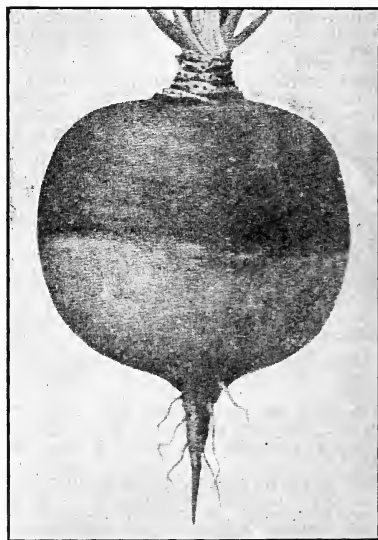
COWHORN—Sometimes called Long White. Is slightly crooked, pure white, except a little shade of green at the top. Grows half out of the ground and is of very rapid growth; is delicate and well flavored. An immense yielder.

The foregoing five varieties of turnips: Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 35c; lb., 60c; postpaid. At purchasers' expense, lb., 55c; 5 lbs., \$2.50; 10 lbs., \$4.50.

WHITE MILAN—The earliest of all. The earliest turnip and the best quality in its class. A fine, snowy-white color. The skin is so smooth and neat as to seem polished. The foliage is short. Size medium, and the flesh is white, tender and smooth grained. Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb., 35c; ½ lb., 55c; lb., \$1.00.

Rutabagas or Swedes

For feeding stock in fall and winter there is nothing superior to rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We desire to call special attention to an improved Bangholm. If you have not used this, give it a trial and we believe you will be more than pleased.



Danish Purple Top

BANGHOLM PAJEJERG (Improved Danish Purple Top)—This variety was awarded a first-class certificate by the Danish Government for heaviest yield, having given 49 tons per acre. In shape is a little more elongated than the Globe types. This variety is recommended as the best of its class.

TURNIPS—Continued

SWEET RUSSIAN, OR WHITE—Hardy, easily grown large and yields as much as the best yellow kinds; flesh fine-grained and solid, but tender and well flavored; good for stock and desirable for the table.

Price on Bangholm and Sweet Russian Rutabagas; Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; lb., 65c; postpaid. At purchasers expense, lb., 55c; 5 lbs., \$2.75; 10 lbs., \$5.00.

YELLOW SWEDE, OR RUTABAGA—Shape oblong, dull reddish color above ground, but yellow underneath; is harder than the common turnip and will keep till spring. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 30c; lb., 50c; postpaid. At purchaser's expense, lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.50.

Herbs

ANISE—Used for cordials, garnishing and flavoring. Pkt., 5c; oz., 10c.

BALM—Leaves used for making pleasant beverages. Pkt., 5c; oz., 25c.

BASIL—Sweet; the leaves are used in flavoring soups, etc. Pkt., 5c; oz., 15c.

CARAWAY—Grown for seeds; used for flavoring. Pkt., 5c; oz., 10c.

CATNIP, OR CATMINT—Leaves and young shoots for seasoning. Pkt., 5c; oz., 35c.

DILL—Seeds have an aromatic odor and pungent taste. Pkt., 5c; oz., 10c; ¼ lb., 25c.

FENNEL—Sweet; ornamental; when boiled, used in fish sauce. Pkt., 5c; oz., 10c.

CORIANDER—Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 5c; oz., 10c; ¼ lb., 25c.

HOREHOUND—For seasoning and cough remedy. Pkt., 5c; oz., 20c.

LAVERENDER—An aromatic, medicinal herb. Pkt., 5c; oz., 20c.

MARJORAM—Sweet; leaves and shoots for seasoning. Pkt., 5c; oz., 15c.

SUMMER SAVORY—Used for flavoring soups. Pkt., 5c; oz., 10c.

THYME—Leaves and young shoots used for seasoning; a tea is made from leaves, a remedy for headache. Pkt., 5c; oz., 30c.

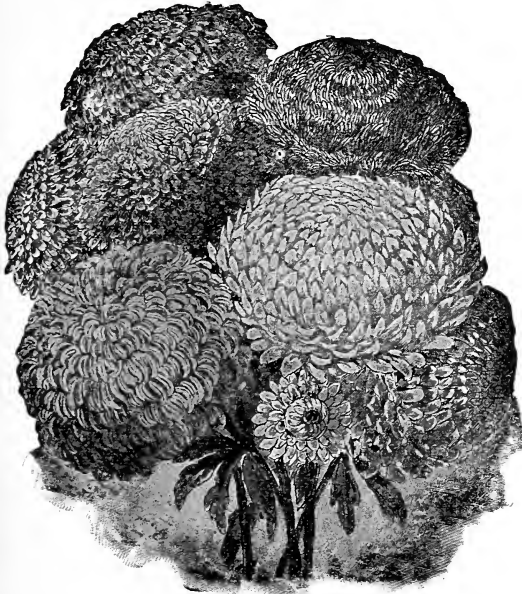
FLOWER SEEDS

ARABIS, OR ROCK CRESS (P)—The earliest, prettiest spring flower. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequaled for rookeries or edgings; withstands the drought and is always neat. Pkt., 10c; ¼ oz., 30c.

AGERATUM (A)—A plant that blossoms continuously all summer in the garden and makes a pleasing contrast of color with more brilliant varieties. Pkt., 5c; ¼ oz., 15c.

ALSSUM (SWEET) (A)—A very pretty plant for beds, vases, baskets, edgings or rock work. Sweet scented and blooms profusely all summer. Pkt., 5c; oz., 25c.

ASTERS



Giant Comet or Ostrich Plume

There is no more beautiful flower than the Aster, and there is none with a greater diversity of colors and sizes. These have been very much im-

proved, so that today the largest and most beautiful resembles a fine Chrysanthemum more than it does an old-fashioned Aster.

Our stock has been selected with the greatest care, so that we are able to offer varieties that will undoubtedly please and delight anyone giving them reasonable care. You will notice that they are 10c and 15c per package. As a special we offer any 12 packages for one dollar.

NEW "CREGO GIANT" ASTER (A)—The "Giant" Crego is distinct in every way, and is magnificent flowers, often 6 inches in diameter, are fully equal to Chrysanthemums. They have rare beauty of form and brilliant coloring, are very vigorous, and free flowering; blooms are borne on long stems.

White	1/8 oz., 50c; pkt., 15c
Pink	1/8 oz., 50c; pkt., 15c
Rose	1/8 oz., 50c; pkt., 15c
Mixed	1/8 oz., 50c; Pkt., 15c

ASTER (CHINESE SINGLE) (P)—These are exceedingly showy and excellent in cutting for vase decorations. The large, brilliant, daisy-like flowers with yellow centers are produced in profusion. Hardy perennial. Finest Mixed, ¼ oz., 40c; pkt., 5c.



Hohenzollern Aster

ASTERS—Continued

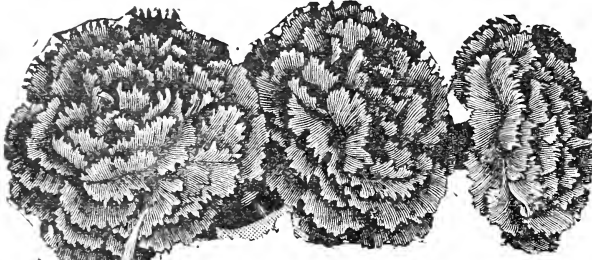
GIANT COMET, OR OSTRICH PLUME (A)—Are thrifty growers, 15 inches high, bearing immense long-stemmed flowers, composed of long, wavy petals, like Japanese Chrysanthemums.

Crimson, 2 ft.....	¼ oz., 40c; pkt., 10c
Dark Blue, 2 ft.....	¼ oz., 40c; pkt., 10c
Light Blue, 2 ft.....	¼ oz., 40c; pkt., 10c
Rose, 2 ft.....	¼ oz., 40c; pkt., 10c
White, 2 ft.....	¼ oz., 40c; pkt., 10c
Mixed	¼ oz., 40c; pkt., 10c

HOENZOLLERN ASTER (A)—The finest type of the Giant Comet, or Ostrich Feather type of Asters. Much larger than the Giant Comet, the petals longer and more curled and twisted, and produced in greater abundance. Borne on long stems, which makes them cut flowers par excellence. We have them in separate colors.

White	½ oz., 40c; pkt., 10c
Light Blue	½ oz., 40c; pkt., 10c
Dark Blue	½ oz., 40c; pkt., 10c
Pink	½ oz., 40c; pkt., 10c
Rose	½ oz., 40c; pkt., 10c
Lavender	½ oz., 40c; pkt., 10c
Mixed	½ oz., 40c; Pkt., 10c

BALSAM (A)—Unrivaled for the great variety of color and size of flower; includes all of the most desirable shades and colors; no finer mixture can be obtained. Pkt., 10c.

CARNATION

The Carnation has always been one of the most esteemed of flowers, on account of their spicy fragrance, richness and diversity of color, great beauty, free-blooming and ease of culture. The several mixtures offered

MARGUERITE DOUBLE MIXED by us are among the very best obtainable. For early blooming sow under glass. Can be sown in the open garden.

(A)—The most magnificent of all the Pink family and general favorites for their delicious fragrance and richness of color. Pkt., 10c; ¼ oz., 25c.

VIENNA DWARF MIXED—Produces double, sweet-scented flowers, in a great variety of colors and in great profusion. Pkt., 15c; ½ oz., 40c.

GIANT MALMAISON—An exceedingly fine mixture. Pkt., 25c.

COREOPSIS (LANCEolata) (P)—A perennial, blooming the first year; flower rich yellow, single; very fine for cutting. Pkt., 10c; ¼ oz., 25c.

CENTAUREA IMPERIALIS (ROYAL SWEET SULTAN) (A)—The finest of all Sweet Sultans; the plants are very strong and bear giant flowers on stiff, long stems; excellent for cutting and lasting, when cut, unusually well. Mixed, pkt., 10c; ¼ oz., 25c.

CHRYSANTHEMUM (A)—The Annual Chrysanthemums are rapidly coming to the front, both as greenhouse and garden plants, as they have recently been greatly improved. Choice mixed, pkt., 5c; ¼ oz., 15c. Fancy mixed, pkt., 10c; ¼ oz., 25c.

BACHELOR'S BUTTON, OR CENTAUREA CYANUS (A)—A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome. Pkt., 5c; oz., 25c.

BALLOON VINE (LOVE-IN-A-PUFF) (A)—A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels like miniature balloons. Pkt., 5c; oz., 25c.

BEGONIAS (P)—Begonias are among the most beautiful of flowering plants, especially adapted to pot culture. Mixed, pkt., 25c.

CANARY BIRD VINE (P)—A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 5c; ¼ oz., 15c.

CANDYTUFF (A)—Mixed many fine shades. Pkt., 5c; oz., 20c. White—Pkt., 10c; oz., 40c.

CANNA (FRENCH MIXED) (P)—Ornamental, tropical-looking plants of easy culture; large and beautiful flowers. Hardy perennial. Pkt., 10c; oz., 25c.

CALENDULA (POT MARIGOLD) (A)—Very hardy annual, one foot high, blooming freely practically the whole year round. Is of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive. A medicinal extract resembling arnica is made from the flowers. Pkt., 5c; oz., 20c.

CALLIOPSIS (A)—A quick growing annual. The flowers are placed on graceful wavy stems and in color run through all the shades of red and yellow; foliage dainty; useful combined with other flowers. Pkt., 5c; ½ oz., 25c; oz., 40c.

CELOSIA (COXCOMB) (A)—Free blooming annuals, growing best in light soil not too rich. They make splendid border plants and are attractive for pots. Finest mixed, pkt., 10c.

COLUMBINE, OR AQUILEGA (P)—A delightful hardy perennial, growing about two feet high, and splendid for permanent beds and borders. Thrives in partial shade and under the spray of a fountain, or other moist location. Bears exquisite blossoms of clear blue, white, rose, yellow, purple and striped. Singled mixed, pkt., 5c; ½ oz., 20c. Double mixed, pkt., 10c; ½ oz., 30c.

CLARKIA (A)—Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Single and double mixed, pkt., 5c; ½ oz., 25c.



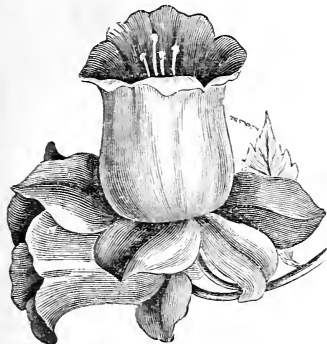
Cosmos

COSMOS (A)—A strong grower, having elegant foliage, and for fall blooming has no superior. Seed grown in March or April and transplanted to open ground will produce plants three to five feet high by September, which thereafter, until November,

will yield hundreds of blossoms three inches across; various shades. **Mixed, pkt., 10c; ¼ oz., 25c.**

COBAE SCANDENS (A)—One of the handsomest and most rapid growing of the annual climbers. It climbs thirty feet in a season. The flowers are bell shape and of a purplish lilac color. Very prolific and perfectly hardy. The vine is always clean of insects. **Mixed, pkt., 10c; ¼ oz., 25c.**

CANTERBURY BELLS (*Campanula Calycanthema*) (**Cup and Saucer**)—Produces beautiful single flowers three inches in length with saucers three to four inches in diameter. The plants form pyramids of bloom bearing from 100 to 200 of these exquisite blossoms for weeks during the early summer. A hardy biennial 2½ feet high, flowering the second season from seed. **White—Pkt., 15c; ¼ oz., 50c. Blue—Pkt., 15c; ¼ oz., 50c. Pink—Pkt., 15c; ¼ oz., 50c. Mixed, all colors—Pkt., 5c; ¼ oz., 25c.**



Canterbury Bells

CYPRESS VINE, OR IPO MOEA QUAMOCLIT (A)

—A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. **Mixed, pkt., 5c; oz., 25c.**

DAHLIA (P)—But few people know Dahlias can be raised from seed and will bloom the first year. The seeds germinate as easily and certainly as Zinnias, and from the very first de-

velopment are strong and sturdy little plants. Plant them in a shallow box or pan early in March or April, transplant them carefully as their growth demands. When all danger from frost is over, plant them in the bed or border in the garden, and from then on they will prove no more trouble than if the tubers had been used instead of seed.

Double MixedPkt., 10c; ¼ oz., 50c
Single MixedPkt., 10c; ¼ oz., 40c
Double Cactus Mixed..Pkt., 15c; ½ oz., 75c

SHASTA DAISY (P)—A most remarkable new flower, originated by Luther Burbank, of California; bears flowers of the snowiest white, with yellow centers; blooms the first season and should be sown in boxes early and transplanted. **Pkt., 15c; ¼ oz., 75c.**

DIANTHUS (CHINESE PINK) (B)—Mixed Single, many distinct and beautifully marked varieties. **Pkt., 10c; ¼ oz., 25c.**

DIGITALIS (FOXGLOVE) (P)—Handsomeness, hardy plants of stately growth. The seed, though small, germinates readily and the plants succeed well even in poor soil if given a half shady location. The spikes are often 3 to 5 feet long and thickly strung with scores of thimble-shaped flowers. Mixed colors. **Pkt., 5c; ¼ oz., 25c.**

DIMORPHOTHECA AURANTIACA (A)—The Golden Marguerite. A rare and extremely showy annual from South Africa which has become a great favorite on account of its very easy culture and beautifully colored flowers. Its Marguerite-like blossoms, produced in great profusion, are 2½ to 3½ inches in diameter. These are a unique glossy rich orange gold, which brilliant coloring is rendered more conspicuous by the dark disk surrounding the black zone. **Pkt., 10c.**

DIAMOND FLOWER (Inoposidium) (A)—A charming little thing for every window garden, growing only 2 or 3 inches high. The seed may be sown in the pots of other plants, resulting in a mass of minute green leaves and starry flowers which shine like diamonds. Colors white and violet blue. **Pkt., 10c; ¼ oz., 30c.**

ESCHSCHOLTZIA (CALIFORNIA POPPY) (A)—The State Flower of California; an annual of rich, rare tints of yellow and orange. About a foot in height, beautiful foliage and large, poppy-like flowers. **Pkt., 5c; ½ oz., 25c.**

FORGET-ME-NOT (MYOSOTIS) (P)—A modest little flower. A pretty trailer with blue flowers. **Pkt., 10c; ¼ oz., 25c.**

FOUR O'CLOCK (MIRABILIS) (A)—Is also called Marvel of Peru. A handsome, free-flowering, sweet-scented plant. They open their blossoms about four o'clock in the afternoon, hence their name. Hardy annuals. **Choice mixed, pkt., 5c; oz., 15c.**

GERANIUM (P)—Comparatively few are aware that Geraniums may be grown easily from seed and flower the first season if sown early. This is the best way to secure Geraniums, as they will frequently reward the cultivator with charming new varieties. In fact, propagation by seed is the only way to obtain new varieties. **Pkt., 15c.**

GODETTA (A)—An attractive, hardy annual deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of rich and varied colors, one and one-half inches. **Mixed, pkt., 5c; ¼ oz., 15c.**

GOURDS (ORNAMENTAL) (A)—Rapid growing, interesting annual climbers with handsome foliage and singular shaped fruit. **Mixed, pkt., 10c; oz., 25c.**

GYPSOPHILA, OR BABY'S BREATH (A)—A pretty, free-flowering plant. Fine for bouquets. **Pkt., 5c; ½ oz., 25c.**

HOLLYHOCKS (P)—These fine, old-fashioned perennials are most striking when planted in groups or long rows; their variety of color is wonderful. When plants are once obtained they last for several seasons. **Double mixed, pkt., 10c; ¼ oz., 40c.**

HELIOTROPE (P)—Everyone loves the delightful fragrance and beauty of the Heliotrope, but few know that it can be raised from seed as easily as the Verbena. To insure a long period of bloom seed should be sown early indoors. **Pkt., 10c; ¼ oz., 40c.**



Heliotrope

ICE PLANT—Tender Annual Trailer—A pretty little trailer for baskets or massing; 6 inches high or less. Leaves covered with crystalline drops. Flowers white or pink. Valued for its remarkable foliage. **Pkt., 5c.**

JAPANESE KUDZU VINE—The Kudzu Vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome flowers. The blossoms are large and in panicles somewhat like the Wistaria, but larger in size and with better clusters. The color is a pleasing shade of purple. The foliage is luxuriant. The Vine is extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc. **Pkt., 10c.**

JAPANESE HOP (Humulus)—Variegated Japanese Hop. A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white, yellowish green and dark green. Not injured by insects or by heat, and the vine retains its beauty until frost. Hardy, the roots living over winter, though it is not a true perennial. **Pkt., 10c.**

JOE'S TEARS—Coix Lachryma—An annual ornamental grass, with broad, corn-like leaves and hard shining seeds of peculiar appearance, giving the plant its name. Two feet. **Pkt., 5c; oz., 10c.**

LOBELIA (A)—A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming little blue and white flowers.

Dwarf SinglePkt., 10c; ¼ oz., 35c
Single Fall Blue Speciosa..Pkt., 10c; ¼ oz., 30c
Single Dwarf Blue Emperor WilliamPkt., 15c; ¼ oz., 40c

LARKSPUR, OR DELPHINIUM (A)—One of the most showy and useful plants, making useful border flowers.

Dwarf RocketPkt., 5c; ½ oz., 25c
Tall BranchingPkt., 5c; ½ oz., 25c



Mignonette

MIGNONETTE RESEDA (A)—A well-known fragrant favorite, and no garden is complete without a bed of Mignonette. Sowings are made in April and again in July, will keep up a succession from early summer until frost. **Pkt., 5c; oz., 25c.**

MOON FLOWER, OR IBOMEA, MEXICANA GRANDIFLORA (A)—Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Black seeded. White seeded. **Pkt., 10c; ¼ oz., 25c.**

MIMULUS (P)—Moschatus, or Musk Plant. Cultivated for its rich musk odor. Should have a rich soil and ample moisture. Hardy. **Pkt., 10c.**

MARIGOLD (A)—Well known, extremely showy garden plant, with handsome double yellow and brown flowers of varied shades; succeeds in good garden soil. **Pkt., 5c; oz., 35c.**

MORNING GLORIES

MORNING GLORY (A)—Tall, new Japanese; the surpassing charm in this grand variety lies in the entrancing beauty and gigantic size of the flowers. **Pkt., 10c; oz., 20c.**

MORNING GLORY (A)—Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. **Pkt., 5c; oz., 15c.**

NASTURTIUMS

NASTURTIUM, TALL OR CLIMBING (A)—A very well-known ornamental, profuse flowering plant, adapted for rock work. The seeds, if picked young, are an excellent substitute for capers. **Mixed, pkt., 5c; oz., 10c; ¼ lb., 25c; ½ lb., 40c; lb., 75c.**

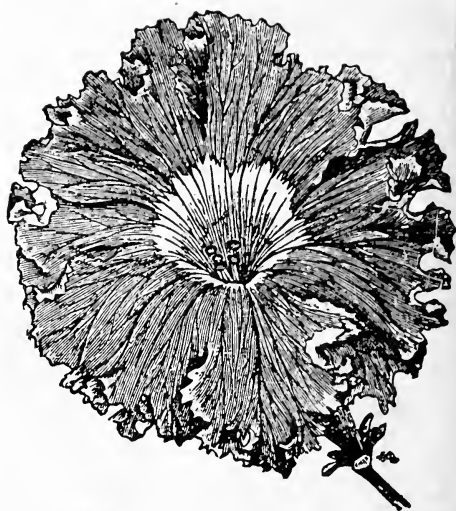
NASTURTIUM, TOM THUMB OR DWARF (A)—When planted in beds or masses the brilliant effect of these splendid flowers is scarcely surpassed by any of our finest bedding plants. **Mixed, pkt., 5c; oz., 10c; ¼ lb., 25c; ½ lb., 40c; lb., 75c.**

NIGELIA—LOVE IN A MIST, OR DEVIL IN THE BUSH—DAMASCENA (A)—A compact, free-flowering plant, with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annual, blue and white mixed. One foot. **Pkt., 5c; oz., 25c.**

NICOTIANA—AFFINIS (Tuberose-Flowered Tobacco) (A)—Delightfully sweet-scented, pure white tubular flowers, blooming continually; annual; two to three feet high. **Pkt., 5c; ¼ oz., 25c.**

PETUNIA

PETUNIA (A)—Is without a peer among annuals for effective summer bedding or indoor culture. It is of easy culture, early to blossom and continues throughout the summer until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants. Provide good soil and a sunny location.



Single Mixed Pkt., 5c; ¼ oz., 25c
Single Fancy Mixed . . . Pkt., 10c; ½ oz., 40c

DOUBLE FRINGED, PINK—Large, exceedingly double flowers of many bright colors. Very desirable. **Pkt., 30c.**

PENTSTEMON (P)—Handsome, half hardy, herbaceous perennials about two feet high and much in favor for bedding out. Flowers bell-shaped or tubular, an inch and a half long, borne in racemes or spikes, white and various shades of rose and purplish red striped with white. **Mixed, pkt., 5c.**

FORTULACA, OR ROSE MOSS (A)—Brilliant, dwarf annuals, only six inches high, luxuriating in warm situations and blooming profusely from early summer to autumn. For low beds and masses of color, from spring until frost, they are indispensable; colors range through innumerable shades of red, yellow, pink, striped, white, etc.

Single Mixed Pkt., 5c; ¼ oz., 20c
Double Mixed Pkt., 10c; ½ oz., 50c

PRIMROSE (CHINESE) (P)—The culture of these lovely flowers is much easier than most people think. Our mixture includes all the choicest colors in all their dainty shades. **Single mixed, pkt., 25c.**

PHLOX



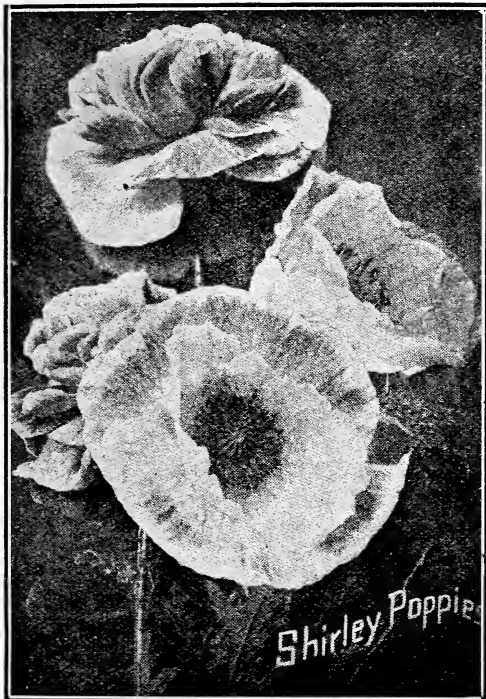
PHLOX DRUMMONDII (A)—Of all summer-flowering annuals, the varieties of Phlox Drummondii are unquestionably one of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. **Fancy Mixture, pkt., 10c; ¼ oz., 50c.**

Perennial Mixed, Pkt., 15c.

POPPIES

Probably no class of plants enjoys greater popularity and is more widely grown than the annual poppies; this is especially true of the single varieties. They are easily grown, and should be sown in beds or wild patches, in the fall or early spring, where they will grow high above the grasses on tall, graceful stems.

CALIFORNIA (A)—See *Eschscholtzia*. **Pkt.**, 5c; $\frac{1}{2}$ oz., 20c.



SHIRLEY (A)—The most beautiful type of poppies, having soft, hairy foliage, and a variety of single blossoms in white, pink, lavender, purple, red and scarlet. Free blooming, and fine for bedding or tall border. **Pkt.**, 10c; oz., 25c.

PEONY FLOWERED (A)—Large, showy, double, globular flowers; mixed. **Pkt.**, 5c; oz., 20c.

ICELAND (P)—A graceful, delicate variety, with dark red single flowers, the petals resembling crumpled tissue paper. The plant is low-growing, but the stems are long and slender. **Mixed**, **pkt.**, 10c; $\frac{1}{4}$ oz., 25c.

ORIENTAL (P)—One of the showiest of perennials, with enormous flowers. The leaf is long and deeply cut and clothed with white, bristly hair. Beautiful among shrubs, roses and other perennials. **Mixed**, **pkt.**, 10c; $\frac{1}{4}$ oz., 25c.

Single Mixed Annual.....**Pkt.**, 5c; $\frac{1}{4}$ oz., 25c

Double Mixed (A) Annual...**Pkt.**, 5c; $\frac{1}{4}$ oz., 25c

PANSIES

PANSY (VIOLA ARICOLOR) (P)—A half-hardy perennial, growing four to six inches high and probably the best known and among the most popular flowers in cultivation. It thrives best in a moist, shady location, and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring.

STEELE'S MASTODON PANSIES—For years the Steele Pansy Gardens have grown our Giant Pansies. These have been carefully re-selected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them. Named varie-

ties and special strains are grown separately and the seed collected by hand and carefully blended into what we believe to be the finest mixture ever offered. **Price**, per **pkt.**, 25c.

LARGE FLOWERING MIXED—This mixture is considered a most excellent one, and is distinguished for its great variety, size of flower, diversity of color and markings and for its free-blooming. **Pkt.**, 20c; $\frac{1}{4}$ oz., 75c.



TRIMARDEAU GIANT, MIXED—A splendid mixture of various shapes and markings. The blossoms are perfectly round and are blotched at the base of three to five of the petals. **Pkt.**, 10c; $\frac{1}{4}$ oz., 50c.

FINE MIXED—Fine assortment of colors. **Pkt.**, 5c; $\frac{1}{4}$ oz., 25c.

RICINUS, OR CASTOR OIL BEAN (A)—Ornamental plants of steady growth and picturesque foliage with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds. **Pkt.**, 5c; oz., 20c.

SCHIZANTHUS (A)—Hardy annuals, growing one and one-half to two feet high and covered with bright, showy, butterfly-like blossoms. Large flowering. **Mixed**, **pkt.**, 10c; $\frac{1}{4}$ oz., 40c.

SWEET SCABIOSA, OR MOURNING BRIDE (A)—Free-flowering annual; colors, white, carmine, lilac, maroon, etc. Very effective for garden decoration and valuable for cutting. Dwarf or tall double mixed. **Pkt.**, 5c; $\frac{1}{4}$ oz., 15c.

SALVIA, OR FLOWERING SAGE (P)—A tender perennial blooming the first season from seed and growing two to three feet high. The blossoms are borne on long stems in racemes or spikes, and are fragrant. The plant forms a bunch and blooms profusely during the whole summer and fall. Brilliant scarlet. **Fine mixed**, **pkt.**, 10c; $\frac{1}{4}$ oz., 50c.

SMILAX (BOSTON IVY) (P)—Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. **Pkt.**, 10c; $\frac{1}{4}$ oz., 25c.

SNAPDRAGON, OR ANTIRRHINUM (P)—One of the most useful and showy of border plants. Of almost every color, and striped as beautifully as Carnations. They have recently been much improved and are now really magnificent. Hardy perennial.

Finest Mixed**Pkt.**, 5c; $\frac{1}{4}$ oz., 25c

White**Pkt.**, 10c; $\frac{1}{4}$ oz., 35c

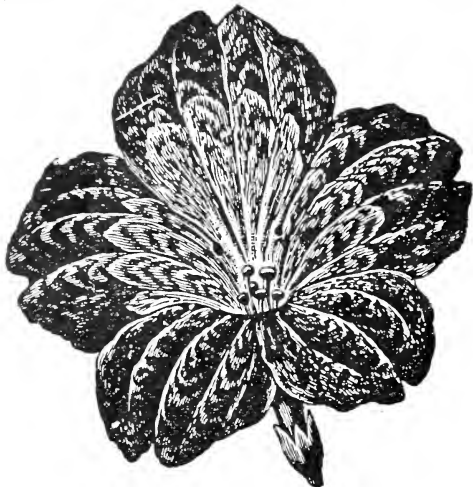
Pink**Pkt.**, 10c; $\frac{1}{4}$ oz., 35c

SUNFLOWER

Stately growing annuals with immense golden yellow flowers; effective for garden decoration.

SUNFLOWER—Continued

DOUBLE DWARF—Covered with three-inch double flowers of brightest golden yellow. **Pkt., 5c; oz., 25c.**



Salpiglossis (Velvet Flower)

SALPIGLOSSIS (A)—The quaint, funnel-shaped flowers somewhat resemble those of the Petunia; beautiful range of colors. **Mixed, pkt., 5c; ¼ oz., 25c.**

LARGE FLOWERING DWARF, 10-WEEK STOCK (A)—This is the leading class for bedding out or summer-blooming. All varieties, mixed. **Pkt., 10c; ¼ oz., 50c. Perennial Tall Mixed, pkt., 10c.**

SWEET WILLIA M(P)—A well-known, attractive, free-flowering, hardy perennial, producing a splendid effect in beds and borders with rich and varied flowers. **Mixed, pkt., 5c; ½ oz., 25c.**

VERBENA (A)—Very few annuals will make such a gorgeous display during the summer months or furnish more flowers for cutting than the Verbena. Start seed in the house or under glass early in the spring and transplant after three or four inches of growth. They flower in July and continue strong and healthy until destroyed by frost. **Fine mixed, pkt., 5c; ¼ oz., 30c.**

WALL FLOWER (P)—Produces spikes of beautiful, exceedingly fragrant flowers. Half-hardy perennial. **Mixed. Single, large flowering. Pkt., 5c; ¼ oz., 25c.**

VIOLETS

VIOLETS (P)—*Viola Odorata* is the well known English Violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places. **Finest mixed, pkt., 10c.**

WILD CUCUMBER (A)—A well-known vine, common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat, but retaining its fresh, lively green color; never infested with insects and very profuse in bloom. **Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; 1 lb., \$1.25.**

WILD FLOWER GARDEN MIXTURE (A)—A garden is not complete without a bed of this mixture of flowering annuals. A package will sow a bed about two by ten feet, and if sown early in the spring will furnish continual bloom throughout the season. **Pkt., 10c; oz., 40c; ½ lb., \$1.00.**

ZINNIAS (Youth and Old

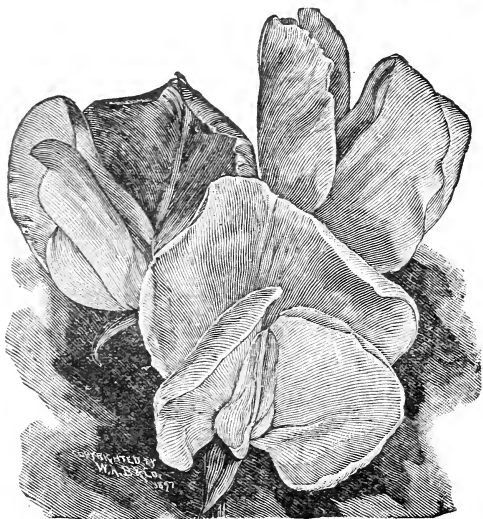
Age (A)—Is one of the most brilliant and showy annuals, and has long been a general favorite. The seed can be sown early in the hotbed and transplanted, or sown later in the open ground. They come in flower early in the summer, and keep on blooming until first frost. **Mixed, pkt., 5c; ¼ oz., 25c.**

**SWEET PEAS**

No garden is too small for a row of Sweet Peas and no estate, however extensive or magnificent, should fail to include many varieties of this most popular flower. Hundreds of varieties have been offered for sale by seedsmen but owing to recent marked improvements many sorts are decidedly inferior and have been dropped from our list.

CULTURE.—Early in spring make a trench three to four inches deep in rich, mellow soil, so arranged that no water can stand in it and plant the seed in the bottom, covering at first only one inch deep. Sweet Peas, particularly the white seeded sorts, are often a little difficult to start. If the soil is too dry they will remain a long time without germinating; if it is too wet and cold they will not sprout at all. In soils at all heavy, or composed largely of clay, put about one inch of sand in the bottom of the trench and sow the seed in this, covering with more sand. Cover the row with a board to shed the rain and protect the soil from the hot sun but remove this as soon as the young plants appear. When the plants are two inches high, cultivate and as they grow gradually fill up the trench. When the plants are about five inches high it is desirable to furnish some support for the vines to run upon. The roots should not be allowed to become too dry. Water applied thoroughly once or twice a week, preferably early in the morning or in the evening, is usually better than light sprinkling more frequently. The blooms should be picked before they form pods or the plants will soon stop flowering.

PRICES: Pkt. 5c; oz. 15c; ¼ lb. 40c; ½ lb. 70c; 1 lb. \$1.25, postpaid.



GRANDIFLORA TYPE

SWEET PEAS—Continued**WHITE**

BLANCHE BURPEE—A splendid pure white variety.

EMILY HENDERSON—A bold, well formed, clear white flower. Wings broad and well expanded. An early and wonderfully free and persistent bloomer.

DOROTHY ECKFORD—Pronounced by Sweet Pea experts to be the grandest pure white yet seen of the grandiflora type. Grows an enormous mass of bloom.

PURPLE AND MAROON

COUNTESS CADOGAN—Large flowers. The color effect is that of a bright blue.

DUKE OF WESTMINSTER—Almost a clear purple.

OTHELLO—A dark rich maroon.

Pink and Rose Shades

KATHERINE TRACY—Rose pink. Splendid, large, open flower, good substance and color, a vigorous grower and free bloomer.

STELLA MORSE—Flowers of a peculiar warm salmon-pink. A combination yellow and pink which is distinct and very attractive.

LOVELY—The most beautiful shades of soft shell-pink, changing to very light rose at the outer edges. Grand flowers of large size.

APPLE BLOSSOM—Heavily shaded and edged with deep pink and soft rose on silvery white.

AURORA—Edges are delicate orange shading to a rose pink.

Lavender and Blue

COUNTESS OF RADNOR—Self-colored in a very distinct and beautiful shade of lavender.

LORD NELSON, OR "BRILLIANT BLUE"—A brilliant dark navy blue with tips of wings a lighter blue. Giant flowers, slightly hooded.

BLACK KNIGHT—One of the darkest varieties.

Shades of Red

KING EDWARD VII.—A lovely, intense crimson. A truly giant-flowering variety. The finest crimson to date. Strong stems and growth.

SALOPIAN—One of the most brilliant sorts yet introduced. The flowers are of faultless form, large and a rich, brilliant cardinal red.

FIREFLY—An intense crimson scarlet, of large open and expanded form. One of the best bright reds yet offered, and its fiery coloring makes it a most desirable bouquet variety.

Striped and Variegated

AMERICA—Bright red on a silvery white ground, showy.

DAINTY—The beautifully formed large flowers, upon first opening, appear to be white, but quickly change to "white with pink edge"—making a most charming contrast.

SENATOR—Purplish maroon, heavily striped on a white ground. Darkest striped variety.

Red Standard White Wing

BLANCHE FERREY—Bright pink standard and nearly white wings.

All varieties of the foregoing Grandiflora Sweet Peas, pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 70c; lb., \$1.25.

SPENCER TYPE

The last few years has seen a wonderful development in Sweet Pea culture. For many years previously the "Grandiflora" type had maintained an unchallenged leadership, and new types were very slow in making their appearance. About ten years ago, however, after several years of experimentation a distinctively new type was developed in the gardens of Earl Spencer in England. The new flower was called "Countess Spencer," and from this magnificent sort has been developed that remarkable class of Giant Orchid-Flowered Spencer Sweet Peas known and admired throughout the horticultural world. The "Grandiflora" are somewhat better able to adapt themselves to adverse conditions and under such conditions do give greater satisfaction, but when properly grown the "Spencers" in size of blossoms, beauty of form, substance and color, the unusual number on a stem, and the long continuance of their blossoming season easily maintain an unapproachable leadership.

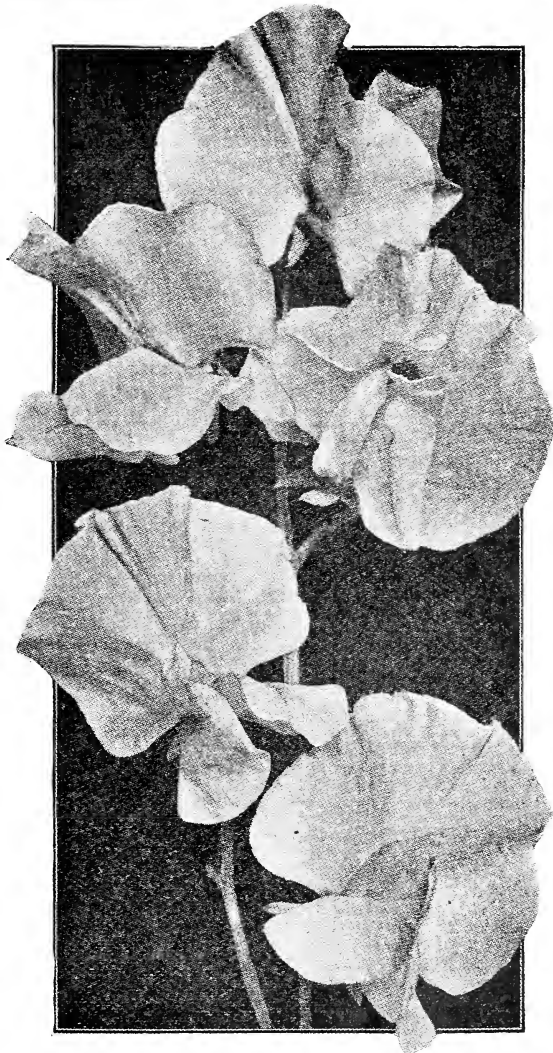
All varieties of Spencer Sweet Peas, unless otherwise quoted: Pkt., 10c; ½ oz., 20c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00; ½ lb., \$1.75; lb., \$3.25.

ASTA OHN—Each stem bears four fine waved flowers. The color is a charming soft lavender, suffused with mauve.

DAINTY SPENCER—It is a most beautiful pink-edged variety; the ground color is pure white with a very distinct margin of rose-pink. The general effect is light and dainty, as the white ground is particularly clear and glistening.

FLORENCE MORSE SPENCER—Delicate blush edged variety; the ground color is pure white with a very distinct margin of rose-pink. The general effect is light and dainty, as the white ground is particularly clear and glistening.

FLORENCE NIGHTINGALE—Known to be the largest and best lavender Spencer yet introduced. The standard is unusually large and bold, pronouncedly waved, yet standing erect and broad—frequently measuring two inches across. The color is of a most charmingly soft clear rich lavender, which is enlivened by a very faint sheen of rose-pink. The large well-spread wings are of the same coloring, frilled and well waved, attracting universal admiration. Pkt., 10c; ½ oz., 30c; oz., 50c.



White Spencer

SWEET PEAS—Continued

HELEN LEWIS—The orange-rose wings roll and fold; the standard is reflexed, showing the distinctly fluted effect, and is of an intense rich crimson-orange. The blooms are truly of a gigantic size—the ruffled standard measuring two inches across.

KING EDWARD VII. SPENCER—The standard is a deep, rich carmine scarlet of glossy effect. The wings are also carmine scarlet, and on the reverse side are also a deep rose carmine. Pkt., 10c; ½ oz., 25c; oz., 40c.

MARIE CORELLI—The wings are a pure rich rose-crimson, while the standard shows a tint of cherry-red. The whole effect is that of a brilliant crimson—clear, distinct and most beautiful. The standard is large, round and wavy; the wings are full and inclined to remain boldly outright instead of drooping. The long strong stems usually bear four flowers each. Pkt., 10c; ½ oz., 25c; oz., 40c.

MRS. HUGH DICKINSON—One of the most chaste and charming varieties yet obtained. The coloring is a rich pinkish apricot on a cream ground, shading off rather lighter toward the center of the flower. The gigantic flowers are uniformly of the best Spencer type, and practically always borne in fours upon exceedingly long stems—and sometimes five flowers to a stem. The vines, of most vigorous sturdy growth, begin blooming early and continue to flower in wonderful profusion. Pkt., 10c; ½ oz., 30c; oz., 50c.

MRS. CHARLES MANDER SPENCER—The flowers are enormous in size, waved and crinkled, of a deep velvety maroon, produces four flowers to a stem.

MAUDE HOLMES, SPENCER—A brilliant sun-proof crimson of the largest size. Of true Spencer form, wavy and fluted. The perfect blooms are carried on extra long stems. A crimson of real merit. Pkt., 10c; ½ oz., 30c; oz., 50c.

OTHELLO SPENCER—The flowers are beautifully waved or crinkled both in standard and wings. The long stems are thick and carry well either three or four fine blooms of a rich deep maroon. It is a strong grower and flowers most profusely.

PRIMROSE SPENCER—The waved standard measures nearly two inches across; the crinkled wings are an inch across by one and one-eighth inches deep. The color is a clear primrose throughout.

PRINCESS VICTORIA—White blush and pink-edged Spencer.

PRINCE OLAF—The bold effective flowers are striped and mottled bright blue on white ground; of good size, with erect expanded standard; the flowers are borne frequently four to the stem. It is a very profuse bloomer.

QUEEN VICTORIA SPENCER—The flowers are extremely large, of the true waved Spencer type, and have a most pleasing color effect. The background is quite a deep primrose flushed with rose. The flowers are all of good substance borne three and four on a stem.

WHITE SPENCER—Flowers absolutely pure white. Standard is waved, crinkled and fluted; three to four blossoms to a stem. Stems 12 to 15 inches in length. Pkt., 10c; ½ oz., 25c; oz., 40c.

All varieties of Spencer Sweet Peas, unless otherwise quoted. Pkt., 10c; ½ oz., 20c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.25.

Mixed

CLOVER LEAF SPENCER MIXTURE—In this mixture we have used only the choicest and best of the Waved Spencer of Butterfly Sweet Peas and have taken every care to produce in the mixture a proper balance of colors. We are confident that in offering this truly incomparable blend we are giving our customers the opportunity of securing the cream of the latest and best efforts in Sweet Pea culture. Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.40; 1 lb., \$2.50.

CLOVER LEAF LARGE FLOWERING—This elegant mixture embraces the introductions, including the recent novelties of Mr. Eckford, the Sweet Pea specialist of England, who has accomplished more than any other individual in bringing the Sweet Pea to its present state of beauty, size and perfection. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00.

Our Clover Leaf Fertilizer is extensively used, and highly recommended by gardeners, because it produces results.

BULBS**SUMMER FLOWERING**

There is nothing in floriculture that will give greater satisfaction or produce such grand results as this class of bulbs, which includes some of our showiest garden flowers. They are of the easiest culture. Planted in spring in good garden soil, they flower with great certainty during summer and fall. The hardy sorts may remain in the ground over winter, but tender sorts should be taken up after the foliage dies in the fall, and the bulbs stored away in a dry, cool place until planting time the next spring.

CANNAS

Cannas should be planted in good, rich garden soil, mixed with half of old rotten stable manure by the end of May, when danger from frost is past. Water sparingly for first two weeks after planting. When growing freely, water liberally. They are quick growers and bloom continuously until frost. Inexpensive, these charming ornamental plants produce rich tropical effects that cannot be excelled, and they are equally valuable for the beauty of their bloom.

BRANDYWINE—An intense wine red, dappled with deep crimson. Broad petals sometimes edged with gold. Plant is 4½ feet high, with dark bronzed veined leaves.

GLADIATOR—This canna has green foliage and grows about 5 feet high. It has cheerful flowers of bright golden yellow, spotted and marked with scarlet. It is a strong, healthy grower and excellent bloomer; always attracts attention. It is able to withstand storms, and may be planted anywhere.

KING HUMBERT—A brilliant orange-scarlet with bright red shadings. Large trusses of blooms, the individual flowers being six inches in diameter. Foliage a rich, reddish bronze, with lighter shadings. The finest red foliage and flowering variety grown. Height, 5 feet.

JULIUS—A golden orange color; a tint almost unique among cannas. Height, 4½ feet. The trusses of large blooms appear to advantage just above the handsome light green foliage.

IMPROVED MONT BLANC—A strong-growing, vigorous variety. This magnificent white canna is the result of years of hybridizing. Its foliage is bright glossy green, and not often injured by rain or wind.

VENUS—A distinct and beautiful variety, unique in its coloring of soft, lustrous pink and creamy yellow. The latter shade being mottled with pink on the wide border. It is a healthy vigorous grower and blooms abundantly. Height, 4 ft. All of the above Cannas, Each, 20c; dozen, \$2.00, postpaid.

DAHLIAS

The Dahlia is one of the most popular summer and fall flowering bulbs, and is a general favorite, and should have a place in every garden. The flowers are very showy and gorgeous. The varieties listed by us are exceptionally fine, each one being a gem in itself.

The Cactus forms of Dahlias are exceedingly beautiful, and are hard to excel. They have long twisted petals and embrace nearly all the colors and shades to be found in any of the other types. The petals being closely rolled outwardly, and the pointed ends standing apart, give a distinctly starlike form to the flowers; in some the long slender petals are charmingly curled.

COCKATOO—Fine large flowers of yellow, shaded fawn and tipped white.

COUNTESS OF LONSDALE—A peculiar but pleasing blending of salmon-pink and amber, a color difficult to describe. This is the Dahlia for the million. Blooms freely under all conditions, and every flower is perfect from the beginning to the end of the season.

EVA—Exquisite form; pure white; very fine.

J. H. JACKSON—Large and very attractive blooms of a rich velvety dark crimson.

KRIEMHILDE—The color is an exquisite shade of delicate shell-pink. The broad center petals are white, forming a beautiful rosette of that color above the pink. It is a profuse bloomer of strong, upright habit.

H.SHOESMITH—The best bright red; of finest form.

Any of the above fine Cactus Dahlias, 25c each, or the entire six \$1.25, postpaid.

DAHLIAS—Continued**Cactus Dahlias**

NEW CACTUS—For large size exquisite colors, elegance of form and profusion of bloom, these new varieties represent the latest and best novelties in Cactus Dahlias.

CHAS. A. CURTIS—Richest scarlet crimson with incurved twisted petals. Very beautiful.

ERECTA—Deep rose pink, immense size on erect stems. Nothing more beautiful.

THE LION—Yellow, shading to reddish salmon. Very large and very handsome.

These fine new Cactus Dahlias, 50c each, or the entire three, \$1.25, postpaid.

Decorative Special

The "Decorative" Dahlias have very large, gracefully formed broad petals. Invaluable for cut-flowers.

GOLDEN WEST—Originated in California with our friend Luther Burbank. It is certainly a magnificent decorative variety; the fine double flowers have each petal fimbriated in a most pleasing manner. The flowers average four inches in diameter, always double and well formed, and are of a bright, clear canary-yellow color. They are borne in abundance upon long stiff stems and are of great value as cut-flowers.

Golden West begins to bloom early and flowers continuously. The flowers are of splendid substance and keep well when cut, thus greatly adding to its value as a florist's variety.

SEBASTOPOL—This lovely new variety is decidedly the best of its color in the decorative section. The color is a soft orange-red, a bright and glorious hue which immediately attracts the attention of every one. The flowers average five inches in diameter, each petal being regular and well placed, and always with a tight center. The flowers are produced on long stiff stems and held well above the foliage. It is an early, profuse and continuous bloomer and will rank as one of the most valuable introductions of recent years.

The above two varieties of Decorative Dahlias are not excelled in the decorative type of Dahlias, and it is very doubtful if they are equalled. Each, 50c, or the two for 90c, postpaid.

Decorative Selected

These selected varieties of Decorative Dahlias have flowers of largest size and large petals and open form. They are very popular for exhibition purposes.

ADMIRAL TOGO—Purple; margined maroon.

FLOBA—One of the most refined white flowers. The pure glistening white is not disturbed by the least suggestion of green; the flowers are always

perfect, on extremely long, erect stems and literally cover the 5-foot plant over its entire surface.

DELICE—Among the many new Dahlias offered this may well be considered a great advance in the type because of its exquisite color and fine form. A large Dahlia of beautiful form and splendid size. It is an exquisite glowing rose pink, a soft yet brilliant color, one of the most beautiful we know. It is a strong free grower, fine foliage, a very free bloomer with long stems, very valuable for cut flowers. Retains its freshness splendidly, also very showy in the garden.

LYNDHURST—Beautiful; vermillion-scarlet.

MAID OF KENT—Bright cherry-red, frequently tipped white.

YELLOW DUKE—Very large flower of a deep yellow quilled petals. The foregoing six, Each, 25c, or the entire six, \$1.25, postpaid.

Show and Fancy Double

They are especially desirable for large size, regular form, and beautiful colorings. This type of flower is most popular with florists for early autumn cutting; the flowers are all borne on long stems and bunch easily.

A. D. LIVONI—A great favorite; clear and beautiful soft pink—grand flowers—a fine variety for cut flowers.

BON TON—Rich garnet-red, finely formed flowers. Splendidly quilled.

CHAMPION ROLLO—Dark orange. The flowers are always large and of finest form.

QUEEN VICTORIA—Rich golden yellow; deservedly most popular.

RED HUSSAR—A brilliant crimson-scarlet; intensely glowing.

WHITE SWAN—Large pure white flowers, always borne upon long stems.

Each, 25c, or the entire six, \$1.25, postpaid.

MIXED—All varieties; all colors; 20c each, or six \$1.00, postpaid.

Paeony Flowered

The flowers produced by this class are remarkable. They are large, with, as a rule, two rows of petals, somewhat ragged in appearance, producing their flowers in wonderful profusion, and for a very long period. Wherever they have been exhibited they have excited great wonder.

CHEVREFEUILLE—Base of petals yellow, gradually passing to apricot and rose, with citron-yellow points.

FRITZIMAN—A brilliant geranium-red, and frequently producing flowers which are variously striped and variegated white.

QUEEN EMMA—A charming shade of Hollyhock pink, the inner petals margined with gold. A very large and magnificent sort.

QUEEN WILHELMINA—This is a splendid variety of this new type with immense pure white flowers, with yellow center. It is very free flowering and the flowers are produced on good stems, making a fine variety for garden decoration.

Each, 25c, postpaid.

CAECILIA—Very large; early in the season, a lemon-yellow, but as the season advances, a creamy-white with yellow sheen in centre.

GEISHA—The showiest and most attractive of this type yet introduced; of strong growth, with the rich-colored flowers, which are frequently over 8 inches in diameter, standing well above the foliage. These are original in form, consisting of peculiarly twisted and curled petals, of an effective and rich combination of scarlet and gold, the centre being yellow, which becomes suffused with and deepens to scarlet at the centre of the petals, shading off lighter at the edges.

Each, 50c, postpaid. One each of the six varieties of Paeony flowered, \$1.75, postpaid.

Our Clover Leaf Danish Ball Head, Danish Summer Ball Head and Copenhagen Market, are the leaders in their line. We strongly recommend them.

Examine the merits of our Potlatch Laxtonian and Telephone Peas. They will please you.

Gladioli



Gladioli are the most satisfactory, desirable and popular of all the garden bulbs. Nothing else of the kind cost so little, grows and blooms so readily in any soil or climate as Gladioli. They thrive and bloom with the least care and attention, and make a display which for brilliancy and beauty of coloring few bulbs can equal and none surpass. Plant any time from March to June.

GLADIOLI CHILDSI

—This wonderful new giant type originated in Germany; is of much stronger growth and large flower than the original type.

Postpaid, 50c doz. Purchasers' expense, 50, \$1.75; 100, \$3.25.

Named Gladioli

AMERICA—A beautiful soft flesh pink. By far the most vigorous and easily grown Gladiolus known. Strong and healthy, with luxuriant, dark-green foliage and a freedom of growth and flowering surpassing all others. Spikes two to three feet long, erect with a great number of large spreading blossoms, all facing one way and showing a color, the delicacy, and beauty of which, it is impossible to describe or reproduce. It is an exquisite, soft lavender pink, very light, almost a tinted white.

Each, 10c; ½ doz., 40c; doz., 75c.

AUGUSTA—Flowers are of perfect paper-white, with a slight pink shade on lower half of the petal. The spike is set solid and perfect, with the flowers from top to bottom. Each, 10c; ½ doz., 60c; doz., \$1.00.

BARON HULOT OR BLUE JAY—Good-sized flower, well arranged on straight spikes; color, dark violet bordering on blue. Each, 15c; ½ doz., 75c; doz., \$1.25.

PINK BEAUTY—This is truly named. Beauty, because it is all that this name implies or can imply. For beauty of color, stateliness of form it is one of the best. Each, 10c; ½ doz., 60c; doz., \$1.00.

PRINCES—The Amaryllis-flowered Gladiolus. A most striking variety. The individual flowers are 5½ inches in diameter and sometimes one inch larger. The petals are very wide and rounded, well reflexed, forming an almost circular flower. The color is brilliant scarlet-crimson with three broad white blotches on the lower petals. Spikes produce 12 to 15 flowers and grow 4 feet in height. It is exceptionally healthy and its flowering is continuous. Each, 10c; ½ doz., 60c; doz., \$1.00.

SPECIAL OFFER—Two each of the named varieties and two of Gladioli Childsi, 85c doz.

LILY OF THE VALLEY

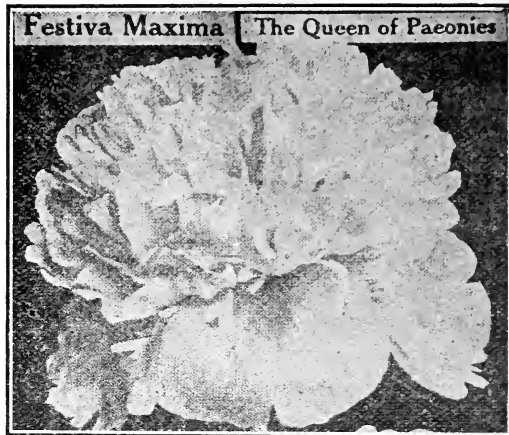
One of the most satisfactory and charming spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Lillies of the Valley thrive in any common soil, are perfectly hardy, and will succeed in shady situation. Selected tips, each, 5c; doz., 40c; 50, \$1.50; 100, \$2.70; postpaid.



Peonies

There is no hardy perennial which equals the Peony in beauty and usefulness. Once planted, the plants and flowers increase in size and beauty with age. They are as hardy as oaks and as handsome (many

as fragrant) as roses. When the plants are through blooming they are as handsome and ornamental as most of the hardy shrubs. The plants are practically immune from insects. We would advise our customers to beware of "cheap" Peonies. An inferior variety will take as much care and space as a choice one, and the first cost of a Peony is nothing compared to the disappointment after years of waiting.



FESTIVA MAXIMA—The best known Peony. Flower of immense size—7 to 8 inches in diameter—snow-white, with some red spots on the edges of the center petals. Very sweet. Early. Postpaid, 60c.

QUEEN VICTORIA—Guard petals milk white, tinted flesh, center creamy white with crimson spots, large globular flower, on stems of medium height, free bloomer, midseason. Postpaid, 30c.

M. BOUCHARLET—Bright pink. Of medium size and excellent form. A good grower and of compact habit. Valuable lawn sort. Midseason. Postpaid, 50c.

LEE'S GRANDIFLORA RUBRA—Rich red, resembling American Beauty Rose, of enormous size and long stem. One of the latest and best. Postpaid, 60c.

KOHINOOR—Shell pink, very free, splendid cut flower sort, midseason. Postpaid, 30c.

OFFICINALIS RUBRA PLENA—This is the old-fashioned red, the most brilliant of all red Peonies. Early and splendid cut flower. Postpaid, 30c.

One of each of above, \$2.25, postpaid.

Fall Bulbs

FALL BULBS—These are only for fall planting and for early bloom in spring. We carry a very large assortment of these and will be pleased to mail bulb leaflet in fall giving varieties, colors and prices.

Hardy Climbing Vines

VIRGINIA CREEPER—Has large, luxuriant foliage, which in autumn assumes the most gorgeous and magnificent color; one of the finest vines for covering trellises, or verandas. Postpaid, 50c.

CLEMATIS JACKMANNI—Of strong growth, hardy nature, rich, deep velvety-purple flowers, is the most satisfactory of its class. Blooms with astonishing profusion. Postpaid, 75c.

HOES—Are the most rapid growers of any vine coming from the roots each spring. Their rapid growth and large broad leaves cover a porch before the arrival of the hot days of the summer. Postpaid, doz., 60c.

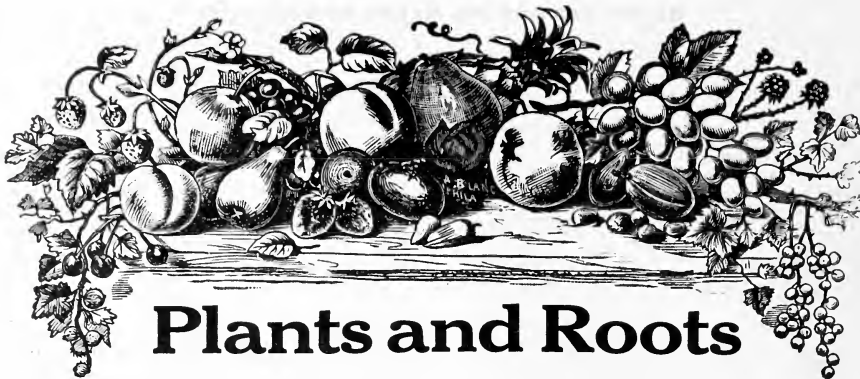
HONEYSUCKLE—Grows vigorously, with yellowish white, fragrant flowers. Postpaid, 50c.

MADERIA VINE—A beautiful rapid climber, bearing graceful racemes of fragrant white flowers; very pretty and useful. Postpaid, 5c each, 50c doz.

CINNAMON VINE—This climber is appropriately called Cinnamon Vine. Very hardy, the stem dying down every autumn, but growing again so rapidly as to cover completely any trellis or arbor early in the season. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and most delicious cinnamon odor, is a most desirable climber. Postpaid, 5c each, 50c doz.

ROOTS, FLOWERING, HARDY PERENNIALS

Variety.	Time of Blooming	Height	Color	Prices	
				Each	Not pre- paid doz.
Ageratum, Achilla, divided rts	June-Sept.	3 feet	Yellow	\$0.25	\$1.75
Ageratum, Patarmica		3 feet	White	.45	4.00
Alyssum, Saxatile	Spring	1 foot	Yellow	.25	1.75
Asters, Amellus Rosens,					
divided roots	Aug.-Sept.	1½ feet	Rose	.25	1.75
Asters, Alpinus, divided roots.	May-June	½ foot	Purple	.25	1.75
Asters, Townshendii,					
divided roots	May-June	½ foot	Lilac	.25	1.75
Avens, Geum, Atrosanguineum	June-Sept.	1½ feet	Scarlet	.25	1.75
Baby's Breath Gypsophila,					
Single	April-May	2 feet	White	.25	1.75
Baby's Breath Gypsophila,					
Double	April-May	1½ feet	White	.45	4.00
Bleeding Heart, Dicentia,					
divided roots	Summer	2 feet	White, Rose	.25	1.75
Canterbury Bells, Campanula,					
Pfizeri	Summer & Fall	2 feet	Blue	.25	1.75
Canterbury Bells, Campanula,					
Moerheltii	Summer & Fall	2 feet	White	.25	1.75
Canterbury Bells, Cup & Saucer	Summer	2 feet	White	.25	1.75
Canterbury Bells, Cup & Saucer	Summer	2 feet	Blue	.25	1.75
Canterbury Bells, Cup & Saucer	Summer	2 feet	Striped	.25	1.75
Canterbury Bells, Cup & Saucer	Summer	2 feet	Pink	.25	1.75
Chrysanthemum Maximum,					
Triumph	May-Sept.	2½ feet	White	.25	1.75
Chrysanthemum, Shasta Daisy	May-Sept.	2½ feet	White	.25	1.75
Columbine, Aquilegia,					
Rocky Mountain	Spring	3 feet	Blue	.25	1.75
Columbine, Aquilegia,					
Pfizeri	Spring	2 feet	Yellow	.25	1.75
Columbine, Aquilegia,					
Rose Queen	Spring	2 feet	Rose	.25	1.75
Columbine, Aquilegia,					
Jackschands	Spring	2 feet	Red & Yellow	.25	1.75
Coreopsis, Lanceloata	May-Oct.	2 feet	Yellow	.25	1.75
Cornflower Aster, Stobesia,	Fall	1½ feet	Blue	.30	2.50
Eupatorium	Aug.-Sept.	3 feet	White	.25	1.75
Fox Glove, Digitalis	June-Aug.	4½ feet	Mixed	.25	1.75
Fox Glove, Digitalis	June-Aug.	4½ feet	White	.25	1.75
Fox Glove, Digitalis	June-Aug.	4½ feet	Pink	.25	1.75
Garillardi	Spring & Summer	2 feet	Scarlet	.25	1.75
	Spring & Summer	2 feet	Yellow	.25	1.75
Golden Glow, Rudbehias	Aug.-Oct.	6 feet	Yellow	.25	1.75
Hollyhocks, double	July-Oct.	4 feet	Scarlet	.30	2.50
Hollyhocks, double	July-Oct.	4 feet	White	.30	2.50
Hollyhocks, double	July-Oct.	4 feet	Yellow	.30	2.50
Iberis, Sempervirens	April-Aug.	1 foot	White	.25	1.75
Iris, German	Spring	3 feet	Mixed	.25	1.75
Japanese Lantern, Physalis		2 feet	Red	.25	1.75
Larkspur, Delphinium,					
Belladonna	Summer & Fall	3 feet	Light Blue	.25	1.75
Larkspur, Delphinium,	Summer & Fall				
Kelway Novelities	June-Aug.	5½ feet	Mixed	.30	2.50
Larkspur, Delphinium,					
Large Flowering	Summer	4 feet	Dark Blue	.25	1.75
Larkspur Delphinium,					
Udicanel	Summer	3 feet	Red	.25	1.75
Lily of the Valley, Pips	May-June	¾ foot	White	doz. 40 \$2.50 pr	100
Phlox, divided roots	Fall	2½ feet	White or Red	.25	1.75
Pyrethrum, Hybudum	Fall	2 feet	Pink, Red	.25	1.75
Rock Cress, Arabis, Alpina	April-June	¾ foot	White	.25	1.75
Snapdragon, Antirrhinum, Fall	April-Nov.	2 feet	White, Yel'w, Scarlet	.25	1.75
Snapdragon, Antirrhinum, dwrf	April-Nov.	1 foot	Scrlt, White Throat	.25	1.75
Spiraea	June-Aug.	2½ feet	White	.25	1.75
Sweet William,					
Dianthus, Barbato	June-Aug.	2 feet	Mixed	.25	1.75
Sweet William,					
Dianthus, Nigucans	June-Aug.	2 feet	Dark Red	.25	1.75
Sweet William,					
Dianthus Salomense	June-Aug.	1½ feet	Salmon	.30	2.50
Sweet William,					
Dianthus, Rosens	June-Aug.	2 feet	Rose	.25	1.75
Sweet William,					
Dianthus, Pink Beauty	June-Aug.	2 feet	Pink	.25	1.75
Sweet William,					
Dianthus, Holborn Glory	June-Aug.	2 feet	White	.25	1.75
Veronica, Spicata	June-Aug.	1½ feet	Blue	.25	1.75
Violets	Spring			.35	2.50



Plants and Roots

We grow large quantities of vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We have made arrangements this year so we can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes.

TRANSPLANTER PLANTS are much stronger and better rooted and are well worth the price, especially in the early part of the season.

For description of flowering plants, perennials and annuals, see list of flower seeds page.

PLANTS FLOWERING

Perennials and Annuals.

Variety.	Postpaid		Prices	
	doz.	100	Postpaid	Postpaid
Alyssum	\$0.30	\$1.60		
Asters .....	.30	1.50		
Daisies .....	.30	1.60		
Candytuft .....	.30	1.60		
Carnations .....	.30	1.60		
Cosmos .....	.35	1.80		
Dahlias .....	.35	1.80		
Dusty Miller .....	.30	1.60		
Forget Me Not .....	.30	1.60		
Geranium, 3 inch pots.....	.25	each 2.50 doz.		
Heliotropes .....	.35	1.80		
Lobelia .....	.30	1.60		
Marigold .....	.35	1.80		
Mignonette .....	.30	1.60		
Nasturtiums, tall .....	.30	1.60		
Nasturtiums, dwarf .....	.30	1.60		
Nicotiana .....	.30	1.60		
Pansies .....	.30-.60	1.75-3.50		
Petunia .....	.35	1.80		
Phlox .....	.30	1.60		
Salvia .....	.35	1.80		
Snapdragons .....	.30	1.60		
Stocks .....	.35	1.80		
Sweet Williams .....	.30	1.60		
Verbenas .....	.30	1.60		
Wallflowers .....	.35	1.80		
Zinnias .....	.35	1.80		

PLANTS—VEGETABLE

Variety	Prepaid		Not Prepaid	
	doz.	50	100	1000 5000
Brussels Sprouts	\$0.25	\$0.35	\$0.60	\$3.50 \$
Cabbage—				
Early Jersey Wakefield, transplanted .....	.25	.50	.75	5.00
Early Jersey Wakefield, not transplanted .....	.20	.35	.50	3.00
All Head Early, not transplanted .....	.20	.35	.50	3.00
Danish Ball Head, not transplanted .....	.20	.35	.50	2.50 10.00
Red .....	.20	.35	.50	4.00
Copenhagen Market,, not transplanted .....	.20	.35	.50	3.00
Cauliflower—				
Snowball, transplanted .	.30	.75	1.00	7.50
Snowball, not transpltd.	.25	.50	.75	4.00 15.00
Celery—				
White Plume, transpltd.	.20	.50	.75	5.00
White Plume, not transplanted .....	.20	.35	.65	4.00 15.00
Golden Self-Blanching, transplanted .....	.25	.50	.75	5.00

Variety	Prepaid		Not Prepaid	
	doz.	50	100	1000 5000
Golden Self Blanching, nat transplanted.....	.20	.35	.65	4.00 15.00
Winter Queen, not transplanted .....	.20	.35	.65	4.00 15.00
Celeriac .....	.25	.75	1.00	
Egg Plant .....	.30	.75	1.00	
Endive .....	.30	.75	1.00	
Kale .....	.25	.75	1.00	
Kohl Rabi .....	.25	.75	1.00	
Mustard .....	.25	.75	1.00	
Parsley .....	.25	.75	1.00	

Peppers—

Ruly King, transpltd...	.25	.50	.75	4.00
Bull Nose, transplanted.	.25	.50	.75	4.00
Cayenne, transplanted .	.25	.65	1.00	5.00
Cherry, transplanted ...	.30	.65	1.00	5.00
Sage .....	.30	.75	1.00	

Tomatoes—

Earliana, transplanted .	.30	.50	.75	5.00 20.00
Earliana, not transpltd .	.25	.35	.50	3.00 12.50
Dwarf Chamlions, trnspltd	.30	.50	.75	5.00 20.00
Dwarf Champions, not transplanted .....	.25	.35	.50	3.00 12.50
Hush or Ground Cherry, transplanted ...	.30	.75	1.00	

ROOTS—

Asparagus—

Palmetto, 1 year old....	.25	.50	.75	5.00 22.50
Palmetto, 2 years old....	.30	.75	1.00	7.00 30.00
Palmetto, 3 years old....	.35	1.00	1.50	9.00
Chives, small bunch....	Each, 15c postpaid; doz.,	\$1.00		
Hop .....	.60	1.25	2.00	
Horseradish .....	.25	.75	1.00	6.00
Mint .....	.55	1.25	2.00	
	Each doz.	50	100	500
Rhubard, 1 year old....	.20	.75	2.00	3.50 10.00
Rhubarb, 2 year old....	.25	1.00	3.50	6.00 16.00

STRAWBERRIES

GOLD DOLLAR—An extra early variety originating in California. It is very productive and great promises are made for its future place in the strawberry world.

OREGON—This variety is of late introduction and somewhat resembles the old Wilson type of a strawberry.

CLARK'S SEEDLING—This variety originated in our state, a seedling of the old popular Wilson variety. Like the Hood River, a near relation, it is unsurpassed as a shipping variety and in some sections very prolific.

MARSHALL—Produces remarkably large, beautiful fruit, resembling the far-famed Glen Mary, that we are pleased to add it to our list and put it in the Magoon and Senator Dunlap class, which is sufficient to guarantee its favor.

HOOD RIVER—The leading standard shipping variety. The berry that has made the town of its name famous, and its growers financially rich. Dark red color, uniform size, good quality, but not heavy in yield. A specialty berry for the grower whose market is somewhat distant.

GLEN MARY—A bright handsome, prolific, standard sort, grown the country over and perfectly reliable. Some large growers claim for this the par excellence in strawberries.

STRAWBERRIES—Continued

SENATOR DUNLAY—Its color is a rich dark red, with glossy finish. It has become a very popular variety, perhaps on account of its uniformity.

WARFIELD—The most popular pistillate variety grown. It is a large, beautiful, cone-shaped berry with a fadeless, dark red exterior; the deep red color is extended clear to the center of the fruit. Exceptionally fine for canning and attractive in the box. Any variety that we offer will fertilize it except Gandy, Aroma.

MAGOON—Of first quality, great productiveness, attractive shape and color; good for canning.

WM. BELT—Nothing better for quality, shape and attractiveness. A reliable and trustworthy variety;

ripens evenly; prolific and will meet the expectations of the most fastidious.

GANDY—A variety that has not yet today found its equal as a truly reliable and all-round late producing berry. The plant is a rampant grower, having strong fruit stems, holding a heavy weight of the fruit erect; slow in forming, and maturing, therefore coming into the market when the early and mid-season varieties are about done fruiting.

AROMA—Among the best of the late ripening varieties. In comparison with the Gandy, it will be found that it commences to ripen a little earlier and will continue to the end of Gandy's season and is similar to it in size and productiveness. Quality the best of any, comes nearer being the true strawberry flavor than all others. Its shipping qualities are of the best.

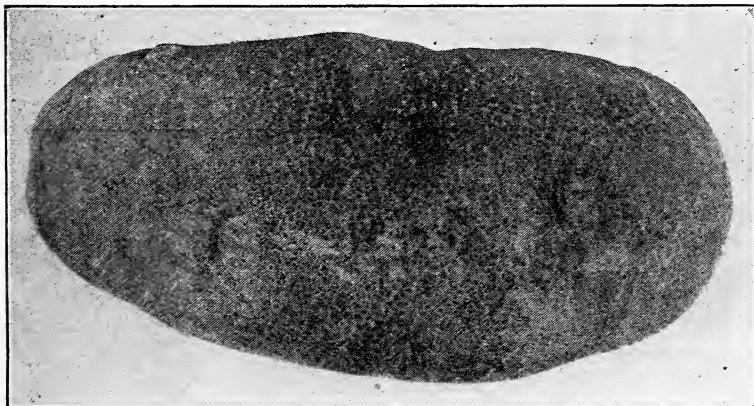
	Doz. Post	25 paid	By Express Postpaid	100	200	300	400	500	1000 Not Prepaid.
MAGOON (S)	\$0.30	\$0.50	\$0.85	\$1.35	\$1.85	\$2.25	\$2.50	\$5.00	
SENATOR DUNLAP (S) .....	.30	.50	.85	1.35	1.85	2.25	2.50	5.00	
MARSHALL (S) .....	.30	.50	.90	1.40	2.00	2.40	2.75	5.50	
GLEN MARY (S) .....	.30	.50	.90	1.40	2.00	2.40	2.75	5.50	
WM. BELT (S) .....	.30	.50	.85	1.35	1.85	2.25	2.50	5.00	
CLARKS SEEDLING (S) .....	.30	.50	.85	1.35	1.80	2.00	2.25	4.50	
HOOD RIVER (S) .....	.30	.50	.85	1.35	1.80	2.00	2.25	4.50	
WARFIELD (P) .....	.30	.50	.90	1.40	2.00	2.25	2.50	5.00	
AROMA (S) .....	.30	.50	.90	1.40	2.00	2.25	2.50	5.00	
GANDY (S) .....	.30	.50	.90	1.40	2.00	2.25	2.50	5.00	
GOLD DOLLAR .....	.30	.50	.90	1.40	2.00	2.40	2.75	5.50	
OREGON .....	.30	.50	.90	1.40	2.00	2.40	2.75	5.50	

SEED POTATOES

CULTIVATE—Potatoes can be grown in any soil, provided it is well drained, but, if grown on sandy, rich soil, they will be of better quality than if planted on clay soils. Sod land is most excellent for this crop. The seed should always be under the sod and not on top of it. It is best to put the manure on one year before the potatoes are to be planted, and in no case raw stable manure should be used, as it is liable to give the scab. In cutting potatoes for planting, do not cut the pieces too small and be sure to have 1 to 3 eyes on them, according to the kind. The constant use of very small tubers should be avoided, or they are likely to run out. The sets should be planted from 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches in the rows.

Prices on Potatoes subject to change. Write for definite prices, stating amount wanted, or we will

send full value for money received at price prevailing on day order is received.



Netted Gem

EARLY MICHIGAN—This is a second early, rather long, white potato, which produces in time to command the high early market prices and yet yields a crop which compares favorably with the standard late kinds and twice as heavy as the earlies. Price, postpaid, 3 lbs., 40c; freight, 25c lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50.

EARLY OHIO—A leading early sort, earlier than the Early Rose, but not so productive. Round, short, and thick tubers, smooth and solid; cooks dry and mealy and matures very early. Price, postpaid, 3 lbs., 40c; freight, 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50.

EARLY ROSE—This variety has been a great favorite for many years and many growers still claim that it has never been excelled in quality and productiveness. Potatoes are long in shape, good size

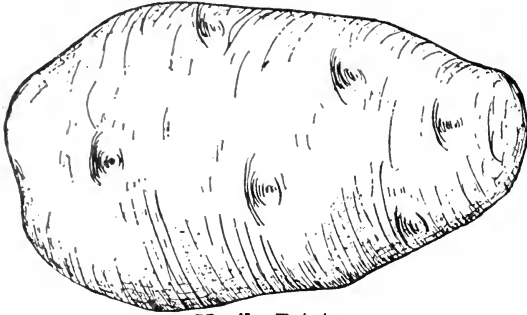
NETTED GEM—The hardiest, most vigorous in growth, most productive, and the best in table quality of all potatoes. It has proved to be unequalled for main crop. The vines are strong, with deep green foliage. In form the tubers are medium long. The eyes are small and there is very little waste in peeling. The skin is thin and very smooth with the exception of very small depressions which give it the appearance of being netted and from which it derives its name. The flesh is fine grained and cooks up mealy white. It is very free from scale and one of the very best keepers on the market.

Price, postpaid, 3 lbs., 40c; freight, 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.75.

and light pink in color at the bud end. They cook mealy and are of the finest flavor. Price, postpaid, 3 lbs., 40c; freight, 25 lbs., \$1.00; 50 lbs., \$1.50.

BURBANK—A late variety—Continues in good demand and is more largely used than any other. It is of good size, or fine form and an excellent yielder. The flesh is white, very mealy and of fine flavor and quality. Price, postpaid, 3 lbs., 40c; freight, 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.25.

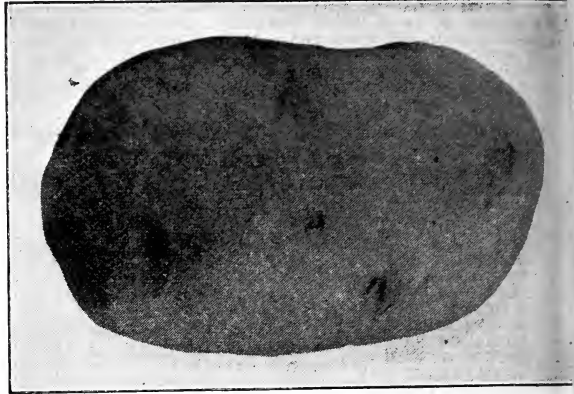
MANILA—These potatoes originally were brought from Manila. The vines are strong and vigorous; the tuber is medium long and pure white with the exception of a shading of pink at eyes and ends. The eyes are small, therefore making it smooth and causing little loss from peeling. The potatoes grow bunched closely together, making them easy of dig.

POTATOES—Continued**Manila Potato.**

Only a very limited amount of stock. **Price, postpaid, 3 lbs., 40c; by freight, 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.**

WEE MacGREGOR—This new, late potato originated in Manitoba about six years ago and it immediately became a general favorite. In appearance it closely resembles the old, well known Carmen No. 3, same shape, with nice white netted skin, a grand good cooker at all times, a remarkable keeper and a

tremendous yielder. One of the most noticeable features of this potato is its wonderful vigor. **Price, postpaid, 3 lbs., 40c; freight, 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50.**

**WEE MacGregor**

Clover

Great care should be exercised in purchasing grass and clover seeds. This is even more important than with other seeds, for, on account of being perennials, and the land not being cultivated, the farmer has not an opportunity to cultivate and thus destroy any weed seeds that might be sown with grasses and clovers.

Owing to the market changes we cannot quote prices. When ready to buy write us for prices, stating quantity wanted, or if you send money, we will ship seed to cover amount sent.

Alfalfa or Lucerne

Alfalfa has long been in many states and is fast becoming in this state a crop of inestimable value. Its chief merit lies in the fact that it may be cut 3 or 4 times a season, each cutting bringing enormous yields of sweet and nutritious forage which is much relished by all kinds of stock. Care should be taken when cattle are first turned in not to allow them to overfeed, as it is liable to cause bloating. It is an excellent soiling crop and makes the best hay when properly treated, being in itself the nearest approach of any farm product to a perfect ration. The seed should be sown broadcast at the rate of 12 to 20 pounds per acre about the middle of April or earlier, should the ground be in good condition, without a nurse or cover crop. The soil must be deep, rich and well drained, and the seed-bed well prepared. The greater the effort and care taken in the latter respect the more certain the probability of a successful catch. The soil should receive a deep, early plowing, followed by frequent rolling and harrowing until the surface is in as perfect a condition for seeding as possible. The seed should never be sown on heavy, sticky clay land where water stands a short distance below the surface.

TURKESTAN—This seed is imported from Turkestan, where it has been grown for a very long time without irrigation, and with very little rain fall. Naturally it has become accustomed to these growing conditions and has acquired properties that makes it more a drought resistant than seed produced by irrigation, or seed grown under conditions where there has been more rain fall. It is, therefore, recommended to be sown on our uplands and prairies where it cannot be irrigated. **Postpaid, 1b., 35c.** Write for prices, stating amount wanted.

**ALFALFA.**

ALFALFA, American Grown—Last season we sold six carloads of alfalfa seed and five of these were non-irrigated Kansas grown. We have secured only a limited supply of this for this season, and present indications are that the supply from that state will be very limited owing to almost a failure in their seed crop. It looks now as if alfalfa was going to be very high and scarce, owing to European conditions and the seeming impossibility of importation. This applies to the Turkestan as well as to the ordinary alfalfa that comes so largely from Germany. **Postpaid, 1b., 35c.** Write for prices, stating amount wanted.

CLOVER

WHITE DUTCH (Trifolium Repens)—A low close growing clover with white blossoms, very fragrant. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. Fancy for lawn. **Postpaid, 50c.** Write for prices, stating amount wanted.

MEDIUM RED

(Trifolium Pratense)—The standard clover for all purposes, either hay, pasture or for improving and enriching the soil. It is hardy and succeeds well on any good soil. It yields the heaviest crop of any clover except alfalfa, and makes superior hay—especially if mixed with timothy—either for dairy cows or for general use. **Postpaid, 1b., 35c.** Write for prices, stating amount wanted.

**RED CLOVER.**

MAMMOTH RED—Being a rank grower makes it most valuable for fertilizing purposes. Foliage, flowers and stem much darker than common Red Clover; ripens later than the latter, about the time Timothy Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. **Postpaid, 1b., 35c.** Write for prices, stating amount wanted.

BOKHARA, OR SWEET—A variety of clover which, when young, resembles in growth alfalfa, but on mature development grows from four to six feet in height. It is extremely vigorous and especially adapted to waste lands, though by many prominent farmers and stock raisers is used on good land for a crop forage. It is very vigorous growth, standing frost and drouth remarkably well, the tap roots penetrating the soil very deeply, and occasion-

(Continued on page 34.)

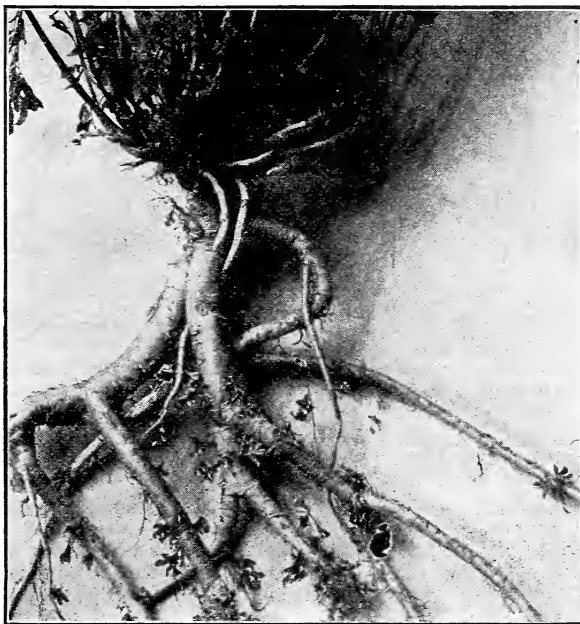
INCREASE Crop Yields and Soil Fertility By Using

Standard Inoculation

50 Cents--Per Acre--50 Cents

ALFALFA
must have
BACTERIA
to produce
BEST RESULTS

"The peculiar value of legumes for maintaining and increasing the fertility of soils is due to certain bacteria which develop nodules upon the roots of leguminous plants and which have the unique power of rendering the free nitrogen of the atmosphere available for plant growth. Without these bacteria, legumes, like other crops, exhaust the soil of its combined nitrogen."
Ext. Farmer's Bulletin No. 315.



PURE-BRED BACTERIA
an
ECONOMIC NECESSITY

"The importance of using selected seed for all crops has been so amply demonstrated that no argument in favor of the practice is needed. It is the very foundation of progress in plant culture. Soil bacteria are no exceptions to the rule, and pure-bred bacteria for specific work are as clearly an economic necessity as pure-bred cattle or pure-bred sugar beets."
Ex. Yearbook of Dept. of Agriculture for 1906

**STRONG ALFALFA PLANT AND NUMEROUS NODULES
PRODUCED WITH STANDARD INOCULATION.**

Alfalfa Can Be Successfully Grown

On some part of nearly every farm by sowing good seed, thoroughly inoculated just before planting, in a properly prepared seedbed on land having good drainage.

"It has been amply demonstrated, not only by hundreds of years of actual experience, but by numberless carefully conducted experiments in many countries and under widely varying conditions, that clovers and numerous other legumes supplied with tubercle (nodule) bacteria obtain from the air through the agency of these bacteria, under favorable conditions, all the nitrogen they require, and that they leave in the soil considerable quantities for succeeding crops. In Germany the amount of nitrogen added to the soil by legumes, besides that taken off in the crop, is estimated at 200 pounds per acre. In the United States the average for sixteen States is 122 pounds, equivalent to not less than 800 to 1000 pounds of nitrate of soda per acre.

Ext. Yearbook of Dept. of Agriculture for 1906.

Value of Inoculated Legumes Fully Demonstrated

STANDARD SEED INOCULATION which is a pure-bred culture and produces results equal to any inoculation on the market, we are glad to offer again this year at the reasonable price of 50c per acre. It is put up in bottles having especially constructed stoppers which furnish the bacteria with a continual supply of air, keeping them strong and active until used. It is delivered ready to use by diluting with a little water and sprinkling on the seed. Seed for ten acres can be thoroughly inoculated in ten minutes.

This inoculation is prepared for the following crops in one acre size bottles

No. 2 for Red,
Crimson, Alsike and
Mammoth Clovers.

No. 4 Alfalfa
or Lucerne and
Sweet Clover.

No. 6 for Vetch
or Canada Field Peas.

No. 10 for Garden
Peas, Beans and
Sweet peas.

When ordering be sure to give names of crops to be inoculated.

One Acre Size, 50c; Postpaid, 55c

Pamphlet on request.

CLOVER—Continued from Page 32

ally used as a drainage plant for wet soils. It will grow on almost any barren hillside, in bottoms, and is equally adapted to all good farming lands. Sweet Clover is one of the most valuable of all crops for bees, being the main honey plant in many sections.

Yellow (Mellilotus Indica), a strong growing annual; lb., postpaid, 25c.

White (Mellilotus Alba), a strong growing perennial; lb., postpaid, 40c.

Write for prices, stating amount wanted.

ALSIKE, or SWEDISH (Trifolium Hybrum).

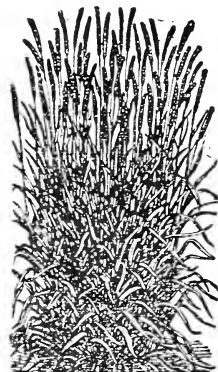


ALSIKE CLOVER

CRIMSON, or SCARLET (Trifolium Incarnatum)—Highly recommended for pasture and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high, and has a beautiful crimson bloom. It germinates quickly, grows rapidly and stools abundantly. **Postpaid, lb., 30c.** Write for prices, stating amount wanted.

ESPERETTE, or SAINTFOIN (Onobrychis Sative)—A deep rooting, perennial legume, extensively cultivated on dry, calcareous soils which are too barren for clover or alfalfa. It is rather difficult to establish, as plants are easily killed when young, but when once rooted, will live from ten to twenty years. **Postpaid, lb., 30c.** Write for prices, stating amount wanted.

Grasses



TIMOTHY.

TIMOTHY—On moist, loamy or clayey soil it produces a larger hay crop than any other grass. It is not so well suited for light, sandy soils. Though preferring a moist, temperate climate, it withstands drought and extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, as if left later, the hay becomes hard and coarse. It is often sown along with red clover, and the nutritive value of the hay is greatly increased by the mixture. Height, 2 to 3 feet. **Postpaid, lb., 20c.** Write for prices, stating amount wanted.

BROMUS INERMIS (Awnless Brome Grass)—Drought defying, frost resisting. It adapts itself to almost every condition of soil and climate and to any use to which grass may be put, equalling in quality and rivaling in yield almost any other grass. The roots push through the soil and form fresh plants on every side. It starts from two to three weeks earlier in the spring than native prairie grass and it keeps green in the autumn longer than any of the useful grasses grown in the West. No amount of

cold seems to be able to kill it. It bears up well under hot summer suns. It is an abundant producer of leaves and is much relished as pasture and hay. **Postpaid, bl., 30c.** Write for prices, stating quantity wanted.



RED TOP GRASS.

ITALIAN RYE (Lolium Italicum)—A quick-growing grass, attaining a height of 2½ to 4 feet. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. **Postpaid, lb., 25c.** Write for prices, stating quantity wanted.

RED TOP, (Agrostis Vulgaris)—A valuable grass for moist, rich soils where it thrives very luxuriantly. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close, as if it is allowed to grow up to seed, the cattle dislike it.

On good soil it grows about two feet high; on poor gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top is commonly known as Herd's Grass and should be more extensively grown, especially in combination with other grasses. **Postpaid, lb., 35c.** Write for prices, stating amount wanted.

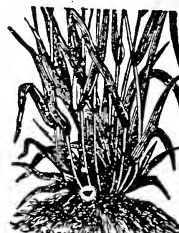
TALL MEADOW OAT GRASS (Avena Elatio)—A hardy perennial much used in the south and west. Its roots penetrate deep, and it thrives on any good soil. It yields a heavy crop and is valuable for both meadow and pasture. **Postpaid, lb., 35c.** Write for prices stating amount wanted.

ENGLISH RYE (Lolium Percune)—This is a valuable pasture grass which will bear close cropping. Produces an abundance of foliage, which remains bright and green during the season. The hay is relished by all kinds of stock. It will grow well on almost any land but does better in cool, moist locations. **Postpaid, lb., 25c.** Write for prices, stating quantity wanted.



ORCHARD GRASS.

ORCHARD GRASS—It stands the drouth, grows well in the shade, does well in wet or poor ground. This grass furnishes excellent pasturage three weeks before any other, and after close grazing ten days, rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. **Postpaid, lb., 35c.** Write for prices, stating quantity wanted.



CLOVER LEAF CHICK FEED

Acknowledged
the BEST

GRASSES—Continued

**KENTUCKY
BLUE GRASS.**

KENTUCKY BLUE—This makes the best, sweetest and most nutritious pasturage for all kinds of stock. This grass is the first to start up in the spring and remains green until snow flies in the fall. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout as to form a tough sod. Blue grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass." Postpaid, 1b., 30c. Write for prices stating quantity wanted.

MEADOW FESCUE (*Festuca Pratensis*)—A variety growing three to four feet high. Roots deep, and resists drouth better than most grasses. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pasturage. Valuable to mix with other kinds. Postpaid, 1b., 30c. Write for prices, stating quantity wanted.

CANADIAN BLUE (*Pea Compressa*)—A hardy variety growing on poorest and driest soils. Short (6 to 8 inches), hardy and wiry, but high in nutritive value. Decidedly blue in color. Stems flattened. Invaluable for use on steep places or exposed situations. Postpaid, 1b., 30c. Write for prices, stating quantity wanted.

Lawn Grass

A beautiful lawn adds greatly to the appearance of a home. In the making a lawn two things are very important, namely preparation of the seed bed, and quality of the seed sown.

The most important thing to consider in selecting seed for lawn grass is to obtain a proper mixture of several varieties, for two reasons. First, each variety is at its best during a certain part of the season. By properly choosing early, medium and late grasses, a smooth, even, green lawn is assured from early spring to late autumn. Second, a given area can support only so many grass plants of one kind for they all absorb the same sort of food, but if several varieties are sown, the same area will support many more plants, as different sorts live on various elements in the soil. With these facts in mind our Clover Leaf mixture has been scientifically combined. Our experience of many years has given us an intimate knowledge of grasses, their habits and requirements. Strangers visiting Spokane frequently comment upon the beauty of our public parks and lawns. Our Clover Leaf mixture is used very extensively on both of these, in fact there is more of it used than all other mixtures combined.

In order to keep a lawn continually beautiful, it should receive frequent applications of fertilizers. Our Clover Leaf Fertilizer is specially adapted and prepared for this purpose. It will produce satisfactory results. By using Clover Leaf Fertilizer you will not be sowing weed seeds on your lawn, as you would do if you used barn yard manure.

CLOVER LEAF LAWN GRASS—Prepaid, 1b., 40c. At purchaser's expense, 5 lbs., \$1.75; 10 lbs., \$3.00. Write for prices in larger lots, stating quantity wanted.

Millets

The Millets are a valuable crop for the farmer who has lost his seeding, or for some other reason expects to be short of hay, for in 8 or 10 weeks from sowing it is ready to cut for hay.

Hungarian and Siberian Millets are the earlier varieties. Millet can be sown as early as the middle of May, or as late as July 10th, although when sown July 10th, the crop comes so late in September that it is hard to cure on account of the cool weather and shorter days.

Write for prices on all Millets, station quantity wanted.

GERMAN—This grows very rank and is one of the best varieties for hay or fodder. On good, rich soil it will make a growth of 4 or 5 feet high, and although the hay may seem coarse, yet is so tender that if cut at the right stage, which is when in full bloom, even the hogs will eat the cured hay quite greedily. Price, postpaid, 1b., 20c.

MANITOBA, OR HOG—Very rich and thus especially valuable as a hog food. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green, thus if cut promptly can be threshed for the seed, while the hay after being threshed will make excellent fodder. Sow same as other millet. Postpaid, 1b., 20c.

NEW SIBERIAN OR RUSSIAN—Is claimed to be the most wonderfully productive and satisfactory forage plant, possessing in a superior degree all the essential merits of any of the older sorts. The claims made by its introducers are that it is from two to three weeks earlier than the German Millet, is a much heavier cropper, that the hay is much finer, stalks more elastic and grows much taller, that it is rust proof, and chinch bugs do not relish it, and being of stooling habit, requires much less seed per acre. Postpaid, 1b., 20c.

HUNGARIAN—It is of fine growth, and makes an excellent hay. It has numerous succulent leaves, which furnish an abundance of green fodder, relished by all kinds of stock. Postpaid, 1b., 20c.

JAPANESE—Is of recent introduction and great claims are made for it as to productiveness and value as a forage plant. Its introducers say that it is a marvelous grower and luxuriant stoolet. Recommended highly for feeding dairy cattle, young stock and sheep, being very rich in nutritious elements. Grows from four to seven feet tall, but is not harsh and woody, as other grasses are. In some sections of the country it is known as Barnyard Millet, while in other parts of the country it has been erroneously introduced under the name of Billion Dollar Grass by some seed houses. Postpaid, 1b., 20c. Write for prices on all Millets, stating quantity wanted.

MISCELLANEOUS FIELD SEEDS

Write for prices on all varieties of field seeds stating quantity wanted.

Rape

DWARF ESSEX—Has been usually grown, until recent years, to furnish pasture for sheep and lambs,

RAPE—Continued

but is now being found equally good in providing pasture for all kinds of stock. Perfectly hardy and of remarkable fattening properties. Easily grown. Pigs, sheep and cattle are all extremely fond of it. A very rank grower and bears heavy manuring and high cultivating. Sow at intervals of several weeks and secure a supply of good feed. Sow in June. Rape should be fed in August, though if a first crop be cut about four inches from the ground an after-growth would be useful later. If soil is rich and clean sow broadcast, otherwise in drills and cultivate same as corn. Can be sown on wheat stubble, furnishing excellent pasture late in the fall. **Postpaid, lb., 25c; express or freight; 10 lbs., \$1.25.**

THOUSAND HEADED KALE—The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agricultural Colleges and Government Stations. **Postpaid, oz., 10c; ¼ lb., 20c; ½ lb., 30c; lb., 60c.**

SUNFLOWER, MAMMOTH RUSSIAN—The largest and most productive variety. Heads often 12 to 20 inches across. Every farmer should plant a few rows at least. It makes one of the very best of foods for poultry; a great egg producer. **Postpaid, lb., 20c.**

Buckwheat

JAPANESE—This variety excels all others; yield much heavier; ripens one week to ten days earlier; stands up better and makes better flower. Excellent for bee pasture. **Postpaid, lb., 20c.**

SILVER HULL—A very good and popular variety. Grain is of light gray color; has a thin husk; matures early and yields heavy. A good milling variety. **Postpaid, lb., 20c.**

Sugar Cane

Sugar Cane is supposed to be grown to advantage any place where you can produce a good crop of corn. In sections where it can be grown profitably it has several advantages over fodder corn, as it is said to produce more feed and to be more drought resistant. It is highly recommended for feed for cattle, sheep and pigs. From our knowledge of this article and our knowledge of the Inland Empire we would recommend the farmers to give this a thorough trial, but do not think it would be wise to go into it extensively until you have demonstrated that it can be grown profitably in your particular location.

EARLY AMBER—This is the earliest, richest and altogether the best sort for Northern latitudes. As a fodder plant we believe this excels all other varieties, as it is sweeter, contains more nutriment and is more relished by stock. **Postpaid, lb., 20c.**

Feterita

A wonderful new grain which has attracted considerable favorable attention in Kansas, Missouri and Oklahoma. It belongs to the Sorghum family. It was introduced from Africa by the United States Department of Agriculture. The advantages claimed for Feterita are its drought resisting qualities, its heavy yield, its earliness, its stooling propensities and its freedom from insect pests. Feterita has successfully withstood dry weather in Kansas and other states. It branches very freely from the roots, making from three to eighteen heads from a single stool. It is from two to three weeks earlier than Kaffir Corn, and should successfully mature in the North. The chinch bugs will consume other crops, but seem to leave Feterita entirely alone. See remarks under Sugar Cane relative to a thorough trial. **Postpaid, lb., 25c.**

MILO MAIZE—This is one of the sorghums similar to Kaffir Corn. Grows erect, with thick, close-jointed stalk. Height, 4 to 7 feet. Heads are very large, giving a heavy grain yield; it drought resistant, and succeeds on alkali soil. Plant late when ground is warm. See remarks under Sugar Cane relative to a thorough trial. **Postpaid, lb., 20c.**

EGYPTIAN CORN, Also Called Jerusalem Corn or Dhoura—One of the non-saccharine sorghums, requiring the same growing conditions. Succeeds well in dry sections. Producing small heads on side shoots up to eight on a stalk, the seed is larger than Kaffir Corn. Yield is heavy. See our notes on Sugar Cane. **Postpaid, lb., 20c.**

KAFFIR CORN—Grows 4 to 5 feet high. The stem or stalk bears numerous wide leaves. The stalks are brittle and juicy, not hardening like other varieties of sorghum. It makes excellent fodder, either

green or dry, which is highly relished by cattle and all kinds of stock. See our notes on Sugar Cane **Postpaid, lb., 20c.**

BROOM CORN, Improved Evergreen—This is the most popular variety of broom corn to grow for the market, the brush being firm and of good length, and retaining the light green coloring when properly cured. **Postpaid, lb., 20c.**

Vetches

SPRING—A pealike plant grown extensively in England and to a considerable extent in Canada for stock feeding, but not as much used in the United States as it should be.

WINTER, SAND OR HAIRY (Vicia Villosa)

This is a very valuable forage plant—and becoming more popular every year. It belongs to the pea family, but the vines are much longer and the foliage more abundant—it improves the soil, being a great nitrogen gatherer. It is advisable to sow oats, barley or rye, etc., with Vetch which serves as a support for the plants. It succeeds on almost any soil and should not winter kill. A sowing in August or September covers the ground before winter and prevents washing during the winter and early spring. Can also be sown in April and will be ready to cut by the middle of July, the second growth affording excellent hog pasture during the summer. The yield of forage varies from ten to fifteen tons per acre, equal to three or four tons when cured as dry hay. **Postpaid, lb., 25c.**

Peas, Field

Field peas are a very profitable crop and grown very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening.

WHITE CANADIAN—A leading kind; seed almost white; a heavy cropper. **Postpaid, lb., 15c; at purchaser's expense, 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00.**

BLUE PRUSSIAN—Very much like the above, except in color. This variety is largely sold dried for soup peas. **Postpaid, lb., 15c; at purchaser's expense, 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50.**

LENTILS—Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are used largely for soups. The leafy stalks make good forage. **Postpaid, lb., 20c;**

COW—Cow Peas are more tender than Canada or Field Peas and should not be sown until Corn planting time. Cow Peas, being of very rapid growth during the warm weather, can be sown as late as the middle of July with reasonable assurance of a profitable crop, either for harvesting or plowing under. Are really small beans of vigorous vining habit and heavy foliage of great nutritious value, yielding five to nine tons of green feed per acre.

NEW ERA COW PEAS—A new, extra early variety, the quickest growing of any of the Cow Peas, maturing in about 60 days, specially adapted for planting north. **Postpaid, lb., 20c.**

Flax Seed

RECLEANED FOR PLANTING—Postpaid, 1b., 20c.

Write us for prices on all field seeds, stating quantity wanted.

Write for prices on all varieties of grain, stating quantity.

Grain

The great importance of sowing thoroughly re-cleaned grain is getting to be more and more recognized by the progressive farmer. Besides being thoroughly re-cleaned the seed should be selected with the greatest care, as there are sometimes foreign seeds in the different grains so nearly the size of the grain itself it becomes almost impossible to make a separation. In selecting grain for seed purposes it should be selected because that each grain has been well filled and thoroughly matured, because it has all ripened at the same time, and because of its freedom from all seeds that can not be separated from the grain. In selecting our grain for seed, all of the foregoing points are taken into consideration, then it is given a thorough re-cleaning, and as a result, we are able to put on the market a strictly number one article. Kindly write us asking for prices and state the amount wanted. Stating the amount is very important, as we do not know whether an enquirer wants one hundred pounds or a ton. In case amount is not stated we always quote price on a small amount. You are therefore depriving yourself of our best price should you want a quantity.

Wheat

There is wheat and wheat, and it is penny wise and pound foolish to sow inferior quality. This inferior quality may be because the grains have not been fully developed or on account of impurity, or on account of improper cleaning. We guard against all three, hence our quality is right.

Winter—Jones Fife, Martin Amber, Gold Coin, Hybrid.

Spring—Blue Stem, White Australian, Marquis. Marquis possesses three remarkable qualities. **Remarkably Early, Exceedingly Productive, Unexcelled in Milling Qualities.**

This great wheat originated in Canada and is a cross between Red Fife and Hard Calcutta. It won the three thousand dollar prize at the International Dry Farming Congress at Lethbridge, Alberta, in October, 1912.

Earliness—It is from one week to ten days earlier than Red Fife. This is important as this week or ten days may mean the difference between a full crop and a failure or a partial failure.

Productiveness—Marquis Wheat has out-yielded all other Spring Wheat grown under the same conditions of soil, cultivation and climate. The increased yield varies from 5 to 10 bushels per acre.

Quality—Marquis Wheat has by numerous milling tests, shown a higher percentage of gluten, a better color, greater absorption and heavier weight per bushel of grain. This question of quality is of great importance to the wheat grower when he comes to dispose of his crop at the mill or elevator.

Appearance—Marquis Wheat is similar in appearance to Red Fife, but the heads, as a rule, are heavier and the straw shorter, making it less likely to lodge. The kernel is flinty, a little darker in color than Red Fife, being dark red, and more plump than that variety. It is beardless, having smooth, yellow chaff.

We are offering this year Canadian grown, which has been imported direct by us. We are also offering a small quantity of home grown. Our supply of both is limited, we therefore suggest the placing of your order early.

Last year Mr. D. E. Rice of Cusick, Wash., purchased a small quantity of seed from us. He sowed 7½ acres, and it averaged 52½ bushels per acre. The universal verdict of those who tried it last spring was that it outyielded all other varieties.

Oats

Oats—We handle the Bonanza, Swedish Select, Silver Mine, Lincoln, and other standard varieties. These varieties have all proven to be well suited to the Inland Empire, and are the varieties mostly grown and recommended. Our quality will be as good, as careful selection and re-cleaning can make them. Write us for prices on wheat and oats stating amount wanted.

Barley

WHITE HULLLESS—A grand barley for stock feeding. Grain plump, heavy and when threshed is hullless like wheat. A heavy cropper. When grown and cut for hay it produces a magnificent fodder, which is very rich and almost equal to a grain feed. Much relished by horses and stock of all kinds. An excellent hog feed.

Its Valuable Properties.

Its hullless; it's beardless; it's very early.

It weighs over 60 pounds to the measured bushel. It yields well on poor land.

It yields enormously on good land.

BEARDLESS—Two strong features distinguish the Beardless Barley above all other barleys; first, its great yielding qualities; second, its freedom from the troublesome beard common to all other varieties except the White Hullless, for it is absolutely without beard. It is on this account not only much more agreeable to handle in threshing than other barleys, but it is much safer and better to feed to live-stock. As a fattening agent for swine Beardless Barley is particularly valuable.

WINTER—This is a bearded variety that was introduced in this vicinity two or three years ago. 100 lbs., \$2.50.

Write for prices on barley

Speltz or Emmer

A valuable new grain from Russia. It is readily eaten by all kinds of stock. Its most striking value is found in the fact of its drouth-resisting qualities. The United States Department of Agriculture has issued a bulletin on Speltz, commending it highly, and the introductory paragraph of that bulletin states:

"The extremely variable climatic conditions in some of our western states have made it desirable to give particular attention to crops resistant to cold and drouth. Among such crops Emmer holds high rank and should become one of the prominent crops for stock feeding. 100 lbs., \$3.00.

Facts About Speltz.

It resists drouth.

It thrives on poor lands, on stony ground.

Endures a great deal of frost.

Is not susceptible to rust or smuts.

Rye

Rye is a valuable and very hardy crop producing green fodder either in the early spring or late fall. It matures before other crops come in and can be sown on soil too poor for other cereals.

SPRING RYE—Spring Rye is an excellent catch crop where winter grain has been killed out, or for sowing where a full crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil.

WINTER RYE—The value of Winter Rye is becoming more apparent every year. It is much harder than wheat and can be grown on a greater variety of soils, even on soil that would not produce a fair crop of wheat. It will thrive even in dry seasons and on light sandy loam. It is grown not only for grain, but for fodder and soiling purposes. When sown in the autumn it starts up very early in the spring and is often plowed under, as it adds greatly to the fertility of the soil. Rye does not exhaust the soil as do other grains and can be cultivated longer on the same land than any other crop on the farm.

Owing to the very unsettled condition of the grain market, and the utter impossibility of us being able to quote prices that would be correct, we have thought best not to make quotations. Write for prices, stating amount wanted.

Kill the Smut in Your Grain

If there is smut in your grain destroy it by using the remedies below. This trouble is becoming very prevalent, and must be destroyed if wheat is to keep up its high grade of milling qualities.

REMEDIES FOR SMUT.

BLUESTONE—Market price. Use 1 lb. to 5 bu. grain.

FORMALDEHYDE—One lb. bottle, 40c. Use 1 lb. for 40 to 50 gallons of water.

Fertilizers

Most soils in the State of Washington are yet fairly new. Their native or virgin fertility is not yet exhausted. There are, however, many different types of soils in the state, some of which do not naturally contain very large supplies of the different elements of plant food needed by crops.



Such soils are likely soon to "run out" and need application of fertilizers carrying the particular elements in which they are deficient. Other soils which carry fairly good supplies of different elements of plant food have been improperly handled or wastefully cropped until badly out of condition. These can best be restored to or built up in fertility by the use of fertilizers to stimulate increased growth until the soils can be properly brought back into good condition.

COMPLETE FERTILIZERS—Complete Fertilizers are those containing correct proportions of all of the essential plant foods, viz.: Nitrogen, Phosphoric Acid and Potash. Different crops require different proportions of these plant foods.

Chemical fertilizers are usually rich in one or two of the ingredients necessary to produce abundant crops, but at the same time are deficient in one or two, hence as a general rule best results cannot be obtained by using straight chemical fertilizers, such as Nitrate of Soda and the different Potashes. To overcome this difficulty and to provide a reliable complete fertilizer we have spent both time and money in the preparation of our Clover Leaf fertilizer. It has been subjected to analysis and the same is printed on each bag. Actual results obtained from the use of Clover Leaf Fertilizer proves conclusively that it is the best fertilizer that can be used by the Farmer, Gardner or Orchardist. Best because it is economical to use and because it produces results. 00 to 800 lbs. to the acre would be fair dressing, and would be equal in fertilizing value to about eight tons of ordinary stable manure. It is free from the millions of weed seeds invariably found in stable manure.

Clover Leaf Fertilizer may be sown broadcast on the plowed ground, and harrowed in, before planting; or it may be drilled in close to the rows of seeds or plants after seeding or during the early growing season. 6 lbs., 25c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50; 500 lbs., \$12.00; ½ ton \$22.50; ton, \$42.50.

SUPER-PHOSPHATE—This is what is known as Acid Phosphate, being Phosphate rock treated with acid to make the Phosphate Acid available. The Phosphoric Acid in this is more quickly available than it is in bone meal and for that reason is sometimes more useful. It contains 20 per cent Phosphoric Acid, and is generally used at the rate of 500 lbs. to 1,000 lbs. per acre. Lb., 5c.; 100 lbs., \$1.75; 500 lbs., \$8.25; ½ ton, \$15.50; ton, \$29.00.

NITRATE OF SODA—Contains 13 per cent Nitrate, in quickly available form. It is used for forcing crops like lettuce, celery, etc., as it makes a large growth of leaves and tops.

Apply the Nitrate of Soda by broadcasting it evenly over the entire surface of the vegetable field you are fertilizing, at the rate of 200 pounds per acre, before seeding, or planting, or transplanting.

Clover Leaf Chick Feed is our own manufacture and is composed of pure, clean ingredients in correct proportions.

Clover Leaf Brand of poultry feeds do not vary in quality; always uniform; always Dependable.

Our business is conducted on a cash basis. Write us for special prices on large lots stating quantity

Lb., 5c; 100 lbs., \$3.75; 500 lbs., \$18.00; ¼ ton, \$35.00; ton, \$68.00.

KAINIT—It contains 12.4 actual Potash and contains Potash both in the forms of Sulphate and Muriate. It contains Salts of Magnesia and also common Salt. Kainit can be used upon the crops for which Muriate of Potash is recommended. Lb., 5c; 100 lbs., \$2.75; bag of about 224 lbs., \$5.50; 5 bags, \$25.00; 9 bags, \$44.00.

SULPHATE OF POTASH—Contains 50 per cent Available Potash. This is similar to Muriate of Potash but is free from chlorides, and can be used to advantage in some instances where the muriate can not be used. Use about one sack to the acre. Lb., 5c; 100 lbs., \$5.00; bag of about 224 lbs., \$10.50; 5 bags, \$50.00; 9 bags, \$87.50.

MURIATE OF POTASH—Contains a larger percentage of Potash than other commercial forms and is, therefore, cheaper where it can be safely used, but owing to the Chloride contained, is not best for some crops unless applied a few months previous to planting which allows the Chloride to leach out while all of the Potash is retained until taken up by the plants. Lb., 5c; 100 lbs., \$4.75; bag of about 224 lbs., \$10.25; 5 bags, \$47.50; 9 bags, \$82.50.

LAND PLASTER, OR GYPSUM—Made from pure Gypsum, free from clay or other foreign matter. This is especially valuable for clover and grass crops. 100 lbs., 75c; 500 lbs., \$3.50; ½ ton, \$6.50; ton, \$12.00.

ANIMAL FERTILIZERS—Animal Fertilizers, being made from animal matter, add warmth and life to the soil. Most of them contain both Nitrogen and Phosphoric Acid, but do not contain Potash, so that to make them complete, it is necessary to add the correct proportion of chemical fertilizers. All the different ingredients are found in our Clover Leaf Fertilizer.

BONE MEAL—This contains 3 per cent Nitrogen and 22 per cent Phosphoric Acid. It is slower in action, but will not dissolve and waste in the soil, as the plant food contained in the Bone Meal is released only as fast as the roots of the plants take it up. 6 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.40; 100 lbs., \$2.25; 500 lbs., \$10.65; ½ ton, \$20.00; ton, \$38.00.

TANKAGE—This is a slaughter-house product. Has but little odor and serves as a useful carrier of both Nitrogen and Phosphoric Acid. The analysis shows 5 to 7 per cent Nitrogen and 12 to 15 per cent Phosphoric Acid. 100 lbs., \$1.50; 500 lbs., \$7.25; ½ ton, \$14.00; ton, \$27.50.

BLOOD MEAL—A quick-acting fertilizer analyzing very high in effective Nitrogen. This also carries some Phosphorus; is a strong fertilizer, a little going a long way. 4 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.50; 100 lbs., \$2.75; 500 lbs., \$13.25; ½ ton, \$25.50; ton, \$50.00.

SHEEP MANURE—This is the best and strongest in fertilizing and enriching elements, as it contains Nitrogen, Phosphoric Acid, Ammonia and Potash in liberal proportions. Produces immediate and lasting effect. Promotes steady and rapid growth. It is very convenient to handle and easy to use. It is in concentrated form, in fact the most efficient and practical fertilizer of today. Sheep manure is carefully selected, dried, pulverized and creaned.

FOR LAWNS—Pulverized Sheep Manure is the best possible fertilizer for the lawn. It should be applied by sprinkling lightly over the grass, much as one would sow grass seed. It requires no raking in. The color is not conspicuous and there is no objectionable odor. 100 lbs., \$1.25; 500 lbs., \$5.75; ½ ton, \$11.00; ton, \$20.00.

We have the following books treating on the different chemical fertilizers, mode and manner of using, crops, etc., which will be sent free of charge. Make your selection and send 5 cents to cover postage: Fall Fertilizers, Farmers Guide, Farmers Note Book, Plant Food, Potash Pays, Potash in Agriculture, Principles of Profitable Farming, Strawberry Culture, Sugar Beet, Truck Farming.

Clover Leaf Egg Producer contains the essentials necessary to the highest production of eggs.

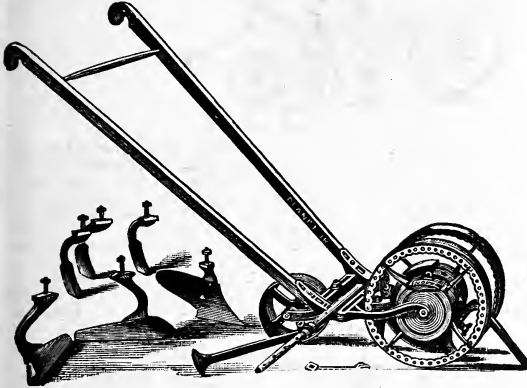
Our Motto: Good Service, Good Treatment, Good Goods.

We believe in Quality first, Quality last, and Quality all the time.

Farm and Garden Tools

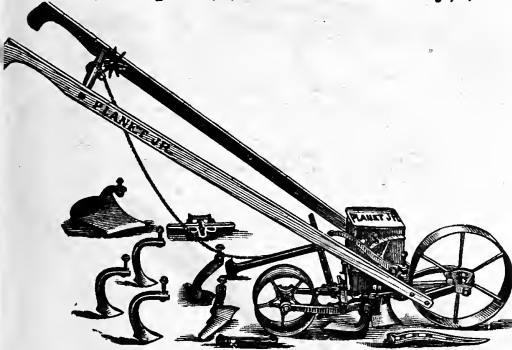
Space will not permit our showing and describing all of the "Planet Jr." Tools, but we will send a full illustrated catalogue free for the asking to any one desiring it, and we can supply promptly anything ordered. "Planet Jr." goods are standard machines, the best on the market. In sending your orders to us you can rely on getting bottom prices.

No. 1, Planet Jr. Combined Drill Seeder Wheel Hoe, Cultivator and Plow. Price Complete, \$11.00.



This tool is known and used the world over. The hopper holds three pints, and sows in an even, regular stream, whether there is much or little seed in it. The machine is extremely simple, has no agitators, belts or gearing, and will not injure and seed. From a drill it is changed to its other uses by removing two bolts, when hoes, cultivator teeth or plows can be quickly attached. It is a practical every-day time and labor saver, a grand remedy for the backache, and the best low-priced combined machine on the market.

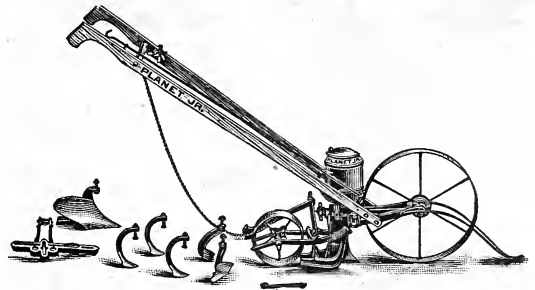
Planet, Jr., No. 4, Combined Seed Drill, Single Wheel Hoe, Cultivator and Plow. Price, complete, \$12.50. Seeder only, \$10.50.



This is the most popular combined tool made. It combines in a single implement a first-class, hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills, at 4, 6, 8, 12 or 24 inches apart.

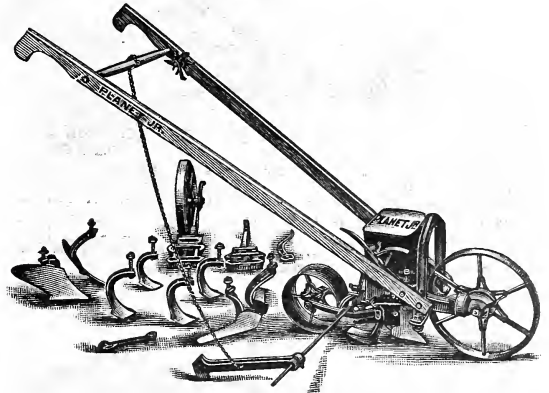
The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. It is useful almost every day of the season, at every stage of the garden work. With this one implement the small farmer can do practically all the work in his small crops.

No. 6, Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow. Price \$15.00.



The steel carrying wheel is 16½ inches high, with forged steel spokes, making an easy running tool. Handles adjustable. The feed and cut-off are very accurate. The opening plow is of a new shape, leaving the seed in a narrower row than any plow heretofore made. The roller is large and wide, leaving the seed in excellent condition for germination. This drill sows in drills, drops in hills 4, 6, 8, 12 or 24 inches apart, covers, rolls down and marks the next row, all in one passage. As a wheel hoe the frame is similar to our No. 17 Single Wheel Hoe and equipped with the same tools.

Planet, Jr., No. 25, Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow. Price, \$15.00.

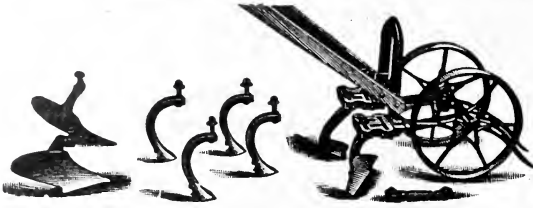


This combined machine is intended for gardeners who have a large enough acreage in crops for a double wheel hoe to be used to good advantage, and prefer not to buy separate machines.

As a drill it is almost identical with the Planet Jr., No. 4, Drill, and is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills.

As a wheel hoe it is identical with the Planet Jr., No. 12 Double Wheel Hoe, the very best machine on the market. The change from drill to wheel hoe takes but a moment and the whole combination is one we can heartily recommend and guarantee satisfactory.

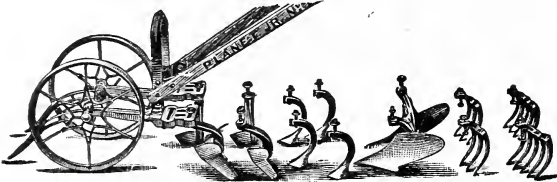
Planet, Jr., No. 12, Double Wheel Hoe, Cultivator and Plow. Price, \$8.00.



The No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Then, too, it's easy to work.

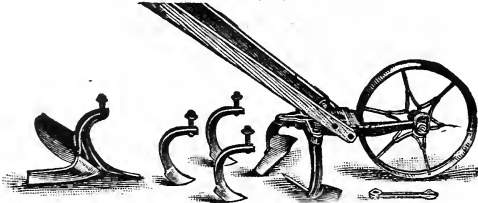
The No. 12 has a pair of 6-inch hoes, a pair of plows for opening or covering, and a set of four all-steel cultivator teeth. The tools shown are what gardeners use most and others can be added as wanted.

No. 11, Double Wheel Hoe. Price, \$10.25.



This is the greatest cultivating tool in the world for the onion and sugar beet grower, and also for every grower of garden crops from drilled seed. They can do more work and do it better and easier than can possibly be done in any other way. One pair 6-inch hoes, one pair 4-inch hoes, two pairs hollow steel cultivator teeth, one pair plows, two 3-tooth rakes, two 5-tooth rakes, and two leaf lifters.

Planet, Jr., No. 17, Single Wheel Hoe, Cultivator and Plow. Price, \$6.00.



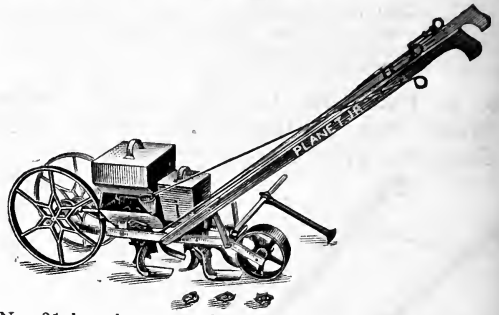
It is suited to all kinds of garden cultivation and all garden crops. You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

Planet, Jr., Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, Complete, \$11.00; with Pulverizer, \$9.10; without Wheel or Pulverizer, \$7.80.

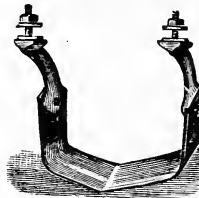


With the 12-tooth harrow here shown you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It's a special favorite with strawberry growers, market gardeners and truckers.

No. 21, Combined Hill and Drill Seeder and Fertilizer. Price, \$22.00.



No. 21 has been much improved and meets the demand for a drill to sow seed and fertilizers at the same time. This tool may be used to sow seed only, in either hills or drills, as desired; or to sow fertilizer only; or to sow both together. Its work is equally perfect when used in any of these ways. It sows all garden seeds in hills, 4, 6, 8, 12 or 24 inches apart, or in drills, and also fertilizer, placing it above or below the seed as desired. The quantity is regulated by our patent feed rod and index at the top of the handle. The seed hopper holds 2 quarts; the fertilizer hopper 4 quarts.



Onion Set Harvester.
Price, \$1.25.
Weight 1½ Lbs.

A useful attachment for our combined drills and all our wheel hoes. Eight-inch size for onions and onion sets. It leaves the crop in the best condition for easy handling.

No. 6 Horse Hoe and Cultivator.
Price \$7.00



We recommend to all our customers as being one of the best tools made.

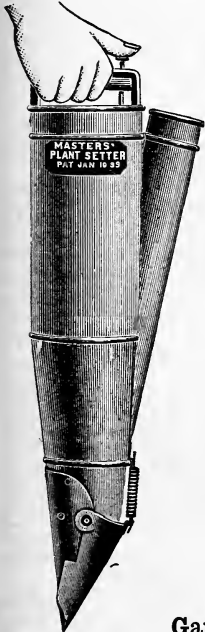
Cronk's Cultivator Hoes



Two prongs are changeable for rows of any width. Loosening nuts, releases the prong. Works between rows or center prong can be removed and rows straddled. A perfect weeder and pulverizer, giving level cultivation. Removing center prong and reversing other four makes Potato Digger. Head made entirely of steel. Light, well made, serviceable. Blue finish, 4 1-3 foot handle. Price, \$1.00.

"Standard" Garden Plow

The adjustment is the handiest and most perfect ever put on a tool of this kind and is adjusted up and down by loosening a thumb nut at the top of the shank, as shown in cut, and may be done without removing the plow from the ground. Wheel 24 inches in diameter, held by double pattern frame of very stiff steel. The handles are adjusted by the same thumb nut without interfering with the plow adjustment. These are the bent style handle both at the upper and lower ends, making a neat fit at the axle and having good hand holds at the upper end. The attachments furnished with this tool are of the best quality and shape ever offered. The new $\frac{1}{2}$ -tooth rake cultivator is fine for all small plants and stirs the ground thoroughly, having wide shovel points. **Price, \$4.00.**

**Master's Rapid Plant Setter**

The only hand mechanical plant setter on the market. It is built on scientific principles throughout. The conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip springs are of steel wire. The machine is well put together with rivets and solder.

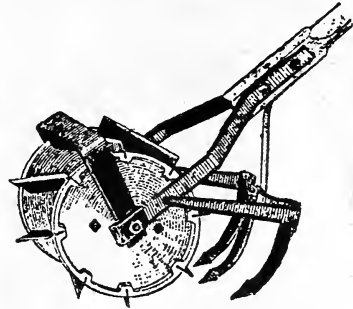
Plants are set in water or liquid manure and covered at one operation. Plants may be safely set out in hot, dry weather. Sets cabbage, cauliflower, tomatoes, sweet potatoes, sugar beets, etc., much more rapidly than by hand and with much less loss of plants. The plant setter has a record of more than 998 plants to grow out of each 1,000 set.

Any man can easily learn to set from 2,000 to 10,000 plants per day.

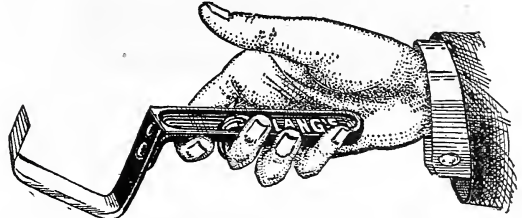
This system of planting is recommended as proof against cut-worms. Weight, 5 lbs. Weight, crated for shipment, $7\frac{1}{2}$ lbs. **Price, \$4.25.**

Garden Trowel

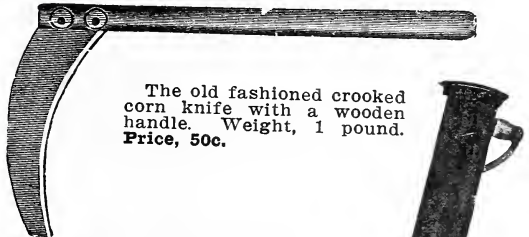
Good steel trowel. **Price, 10c, 25c, 50c; postpaid, 15c, 30c, 55c.**

The Right Tool in the Right Place. The Baker Weeder and Mulcher.

This cultivator is built on the plan of a lawn mower, runs like a lawn mower and cuts weeds like a mower cuts grass. It cuts the weeds that are under the ground as well as those on top of the ground, thus doing away with two or three crops of weeds at one and the same time. The mulching and cultivating of the soil serves a twofold purpose as it breaks up the capillary and prevents the moisture from evaporating. It also keeps the surface in such a condition that it readily takes the surplus water in as it falls. **Price, \$3.50.**

Lang's Weeder

It is very conveniently used, and fits the hand so comfortably that the fingers are entirely free for use wherever necessary. **Price, 25c; postpaid, 30c.**

Corn Knife

The old fashioned crooked corn knife with a wooden handle. Weight, 1 pound. **Price, 50c.**

Potato Planters

EUREKA—This is the lightest tubular planter made. With this planter one man can plant several times as much ground without getting a lame back as he can plant by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once and opens automatically as the top of it is moved forward in walking. Weight, 5 lbs. **Price, \$1.50.**



PINGREE, OR ACME—Is practically the same as the Eureka without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. Weight, 4 lbs. Price, \$1.00.



Invincible
Potato
Planter

INVINCIBLE—A great labor saver. Two acres a day can be planted with one of these tools. The sharp jaw enters the ground as easily as a spade. The handle is adjustable. It has a double leaf spring, and is strong and durable. Weight, 5 lbs. Price, \$1.50.

CORN PLANTERS

THE ACME ROTARY AUTOMATIC CORN PLANTER—Pressed steel hopper. Hopper cup conveyor, depth gauge, dump, foot and cut off box. Cast frame (or basket). Disc or seed plates are adjustable by means of a thumb nut to suit various sizes of kernels. Used in one hand like a walking stick. Disc is set to correct number of kernels by loosening thumb nut, moving star until pockets are of right size, then tightening thumb nut again. Plunge Planter into the ground, rock forward to trip seed, and withdraw. Double coil spring automatically rotates disc and closes jaws, thus filling same for next hill. Weight, 6 lbs. Price, \$1.75.



SEGMENT—The seed pocket can be sufficiently enlarged to perfectly adapt it for planting the largest field beans as well as corn. The slide is an arc of a circle having its center where the jaws are pivoted together. In other words, the pivots on which the jaws open and shut are the hub of a wheel of which the slide is a part of the rim. There is consequently no friction nor lost motion. Weight, 5 lbs. Price, \$1.25.

TRIUMPH—Has no objectionable features; is made of good material. Has Iron Seed Box and Iron Channel; foot of polished steel, strong, durable, and gives universal satisfaction. Weight, 5 lbs. Price, \$1.00. A cheap but efficient two-hand planter.

CORN PLANTERS

ECLIPSE ROTARY—Decidedly the best two hand corn planter made and a very desirable implement for those who have a quantity of corn to plant. It puts the corn exactly where you want it, and at a proper depth. It is easily worked and a most satisfactory tool in every way. Weight, 9 lbs. Price, \$1.50.

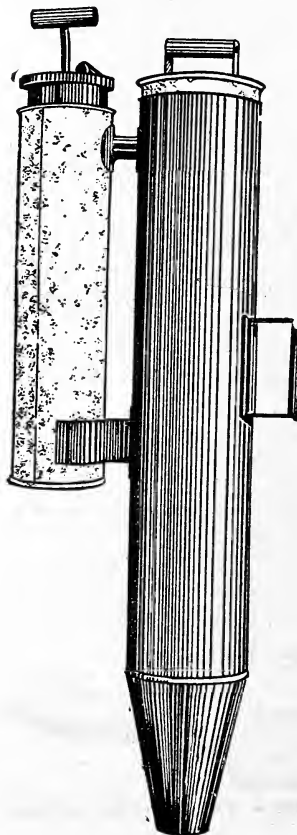
Our Clover Leaf Fertilizer is extensively used, and highly recommended by gardeners, because it produces results.

Examine the merits of our Potlatch Laxtonian and Telephone Peas. They will please you.

Our Clover Leaf Danish Ball Head, Danish Summer Ball Head and Copenhagen Market, are the leaders in their line. We strongly recommend them.

Our Clover Leaf Snowball Cauliflower is selected with great care from the very best strain. Grown in Denmark.

THE LITTLE WONDER SQUIRREL EXTERMINATOR



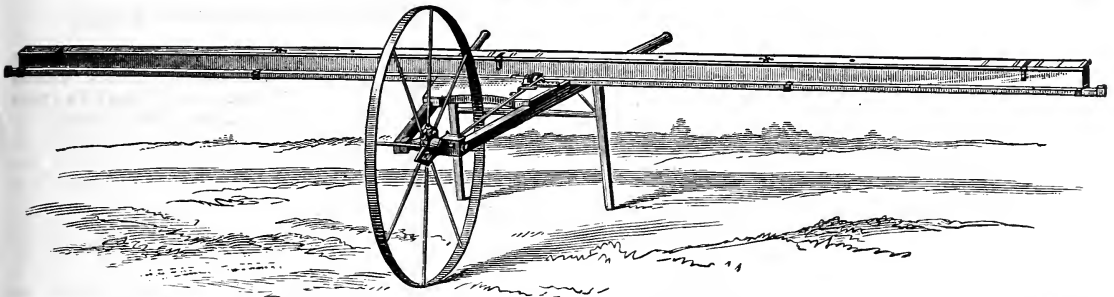
Will not
go by
Parcel
Post.

It is light in weight weighing only 10 lbs., yet is strong and durable.

Its work is rapid and its effects are sure. Experiments have demonstrated squirrels and gophers expire almost instantly when they come in contact with the deadly smoke or gas.

It means a great saving to farmers to be able to quickly and cheaply rid their farms of ground pests. There is no cheaper and quicker method than by using Little Wonder—cheaper than one application of poison, as small quantities of sulphur and straw are the only ingredients necessary to charge the machine.

One important feature about the Little Wonder is the compressor or pump, which insures a good volume of smoke and with such force as to drive it to the remotest parts of the pests' holes, causing instant death. Price, \$7.00.



NATIONAL WHEELBARROW—They run easily, and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This new seeder is constructed on up-to-date principles. It has a strong steel wheel, 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire, is operated by a device that engages the wheel close to the hub, having a lever and working correspondingly easy. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing the pin in the index plate as thereon indicated. This seeder does not injure or bunch the seed, but evenly distributes it the full length of the hopper, 14 ft. spread. **Price \$8.50.**

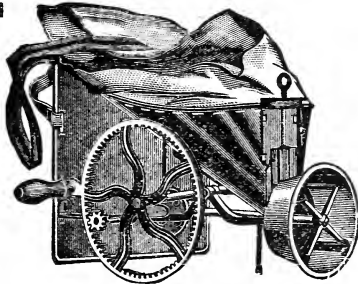


THE SOWER THAT
SCATTERS EVENLY.

IMPROVED CYCLONE SEED SOWER—Has a Slope Feed Board — This feature is found in no other Sower as the Improved "Cyclone" is the only Hand Seed Sower that is framed together with a slope feed board. This is a marked improvement over the single-bottom-board type as it insures a filled hopper always, until seed is exhausted. Triple Gears — are all adjustable.

Automatic Feed Shut-Off—starts or stops flow of seed instantly.

The improved "Cyclone" is guaranteed to sow perfectly all seed that can be sown broadcast, such as clover, timothy, millet, flax, wheat, oats, alfalfa, etc., etc. Weight, 5 lbs. **Price, \$1.75.**



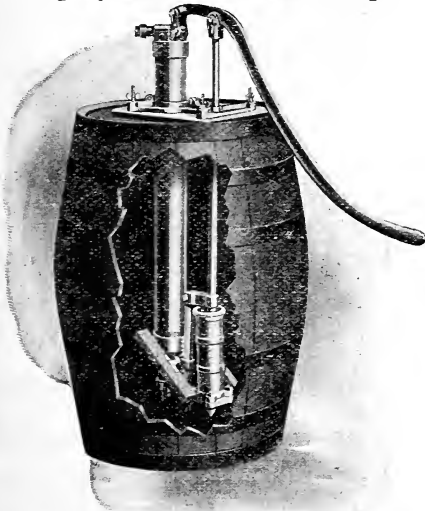
Cahoon Broadcast Seeder hand. **Price, \$3.50.**

LITTLE WONDER—This Sower of the Single-Board-Bottom type, is a trifle smaller than the Improved Cyclone, but it has the same shape and is carried and operated the same. Has large Distributing Wheel and Automatic Feed shut-off. Is a well constructed Sower that will handle all varieties of farm seed that can be sown broadcast. Weight, 4 lbs. **Price \$1.50.**

CAHOON—The standard broadcast seeder and one of the best manufactured. Sows all kinds of grain, Clover, Timothy, and heavy seeds. Very simple in operation and sows 4 to 6 acres an hour at common walking gait. Distributes seeds uniformly in one-fifth the time required by the standard broadcast seeder. **Price, \$3.50.**

Pumps

BEAN LITTLE GIANT NO. 70 Spray and Whitewash Pump



"Little Giant" is recognized as the best and most powerful barrel sprayer on the market, giving universal satisfaction for small orchards of a few acres.

The pump has a large steel air chamber, making it easy for the operator to keep up a high pressure, and continue spraying for some time after pump has stopped.

It has no stuffing boxes, glands or outside packings, thereby insuring easy running.

Rotary agitator that is positive, insuring thorough agitation for such heavy solutions as arsenate of lead, Bordeaux, whitewash and cold water paint.

Pump with "Rapid Mixer," top plate, anchor, hose nipple and thumb bolts ready to fasten to barrel. **Price, \$15.00.**

Pump with "Rapid Mixer," top plate, anchor, hose nipple thumb bolts, one 8-foot bamboo extension with nozzle and cut-off. **Price, \$17.00.**

Pump with "Rapid Mixer," top plate, anchor, hose nipple, thumb bolts, one 8-foot bamboo extension with nozzle and cut-off, and 25 feet of Hose fitted. **Price, \$20.00.**

If desired mounted on barrel add to above prices **\$2.25.**

BEAN "PIPPIN" NO. 50

Our Bean Pippin, No. 50, is especially adapted for use on side hills and very rough ground, because the air chamber is entirely contained within the barrel, so it is almost impossible to tip over.

It also meets the demand for a low-priced, high-class sprayer for small orchards, vineyards or whitewashing jobs.

It has an anchor in the bottom of the barrel on which the point of the cylinder rests, which holds it rigidly in position. It is made to fasten in a barrel without a head, so is extremely easy to mount.

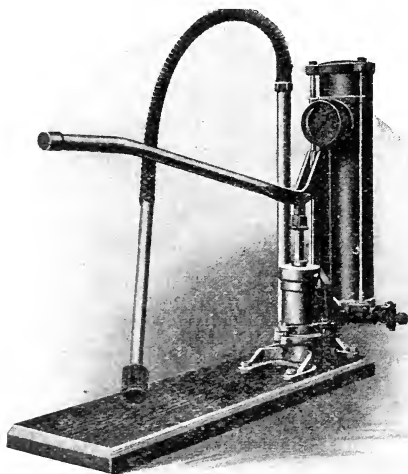
OUTFIT 270—Pump, with agitator complete, anchor, hose nipple and bolts ready to fasten to barrel. **Price, \$11.00.**



OUTFIT 271—Pump, with agitator complete, anchor, hose nipple, bolts ready to fasten to barrel. **Price, \$13.00.**

COMPLETE OUTFIT 272—Pump, with agitator complete, anchor, hose nipples, bolts ready to fasten to barrel, one 8-foot bamboo extension, with nozzle and cut-off and 25 feet of Hose fitted. **Price, \$16.40.** If desired mounted in barrel add to above prices \$2.25.

BEAN JUNIOR NO. 1



Good Capacity; Low in Price

Owners of small orchards who desire high pressure with economy will find the Bean Junior a thoroughly reliable, efficient and inexpensive pump.

It supplies a large amount of air to the receptacle, making the pump easier to operate, the pressure uniform and the spraying more effective.

OUTFIT 211—Junior No. 1 Pump, on platform, with pressure gauge, suction hose, strainer, and single cut-off, \$27.00.

OUTFIT 212—Junior No. 1 Pump, on platform, with pressure gauge, suction hose, strainer, single cut-off and one 8-foot bamboo extension, with nozzle and cut-off, \$29.00.

COMPLETE OUTFIT 213—Junior No. 1 Pump on platform, with pressure gauge, suction hose, strainer single cut-off, one 8-foot bamboo extension, with nozzle and cut-off and 25 feet of Spray Hose fitted, \$34.75.

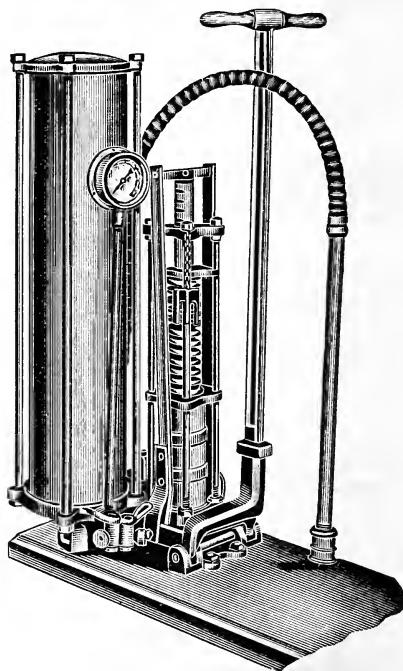
The Success Bucket Spray Pump



All Brass Working Parts, with Indestructible Bronze Valves, Malleable Iron Combination Foot-Rest.

This outfit is a most excellent one for ordinary use in gardens, vineyards and orchards; for washing windows and buggies and for the application of white-wash. The pump has a large air chamber and is double-acting, throwing a continuous stream either solid or in fine spray. It is provided with Bordeaux nozzle and four feet of discharge hose. Weight, 8 lbs. **Price, \$4.00.**

THE MAGIC SPRAY PUMP



Magic pumps represent a principle in construction, found in no other spray pumps.

This construction means maintaining the high pressure that is absolutely essential with only two-thirds of the labor necessary with any other pump.

In addition to the overwhelming superiority the Magic and other Bean Spray Pumps are the only ones which—

Have non-corrosive porcelain cylinders, 3-inch;

Have no stuffing box or outside packing;

Have 5 1-16 inch bell metal ball valves with reversible and removable seats;

No threads inside the valve;

Have a powerful spring, which is so used as to save one-third the labor;

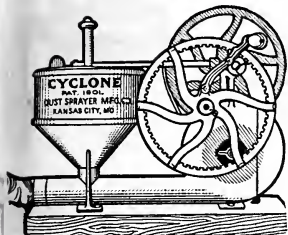
Weight, 200 pounds.

OUTFIT 181—With gauge, double cut-off, suction-hose and strainer, \$41.00.

OUTFIT 182—With gauge, double cut-off, suction-hose and strainer, two 8 or 10-foot bamboo extensions with cut-offs and nozzles, \$45.00.

COMPLETE OUTFIT 183—With gauge, double cut-off, suction hose and strainer, two 8 or 10-foot bamboo extensions, with cut offs and nozzles, and two 25-foot lengths of Spray Hose, fitted, \$56.00.

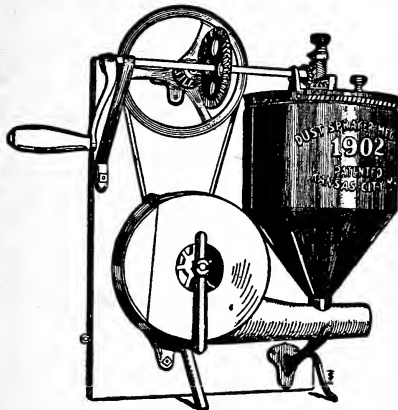
DUST SPRAYERS



CYCLONE—This is a hand power machine. The dust box holds 1 peck of dust, the machine uses 2½-inch air tube and 8 feet of 2½-inch spouting, one flexible joint, stand and fixtures, and one book of formulas are furnished free with each machine.

Capacity—One horse and light wagon, and two men can do, according to the size of the trees.

Price—Machine, 8 feet 2½-inch spouting, 1 flexible joint, stand and fixtures, \$27.50.

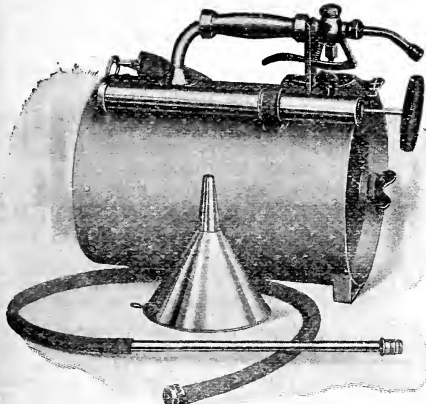


PORTABLE MACHINE 1902—This machine is carried by the operator. The machine and its entire mechanism is securely fastened to a single back piece. It is held in position by combined shoulder braces and waist band, adjusted in such a manner as to throw the weight of the machine on the haunches of the operator.

The dust box holds 1 gallon. It has the same feed attachment as the Cyclone. The dust box, air tube, and fan shell are made from galvanized iron on exactly the same design as the Cyclone. It has 1½-inch aid duct, and 6 feet of 1½-inch spouting, one flexible joint, one pair of combined shoulder braces and one book of formulas are furnished free with each machine.

Price—Machine, 6 feet 1½-inch spouting, 1 flexible joint, and 1 pair combined shoulder braces. Price, \$15.00.

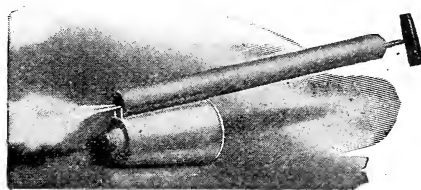
Lowell Fountain Compressed Air Sprayer



One pumping will expel entire contents of tank and is sufficient to spray 2,000 plants. Spraying nozzle may be reversed to spray under side of bushes and plants. The Automatic Thumb Lever Valve is

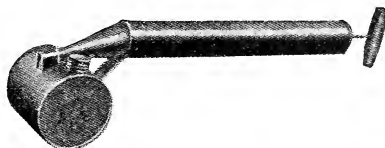
at all times under complete control of operator—hence none of the solution is wasted. It saves its cost in making a given amount of compound do so much work. An adjustable shoulder strap and tree attachment with suitable couplings for orchard and tree spraying furnished with each machine. Aluminum finish. Capacity, 3 gallons. Weight, 10 lbs. Price, \$5.50.

Inland Powder Sprayer



In some sections potato growers, stock and poultry raisers prefer to use Paris Green and dis infectants in powder form mixed with dry plaster. To meet such a demand the "Blow" Sprayer is recommended. This will be found to be one of the best powder sprayers on the market and will give entire satisfaction. Weight, 1¼ lbs. Price, \$1.00.

Inland Special Sprayer



Inland Special Sprayer is a Single Tube Tin Sprayer. The pump cylinder measures 1½ inches in length by 1¼ inches in diameter.

Sprayer is fitted with a ¼-inch steel plunger rod; special type plunger. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Weight, 1½ lbs. Price, 50c.

Business Sprayer

Has automatic shut-off nozzle, holds 1 gallon, weighs 3 pounds. Just right for greenhouse or small garden. Price, \$2.25.

Inland Continuous Sprayer

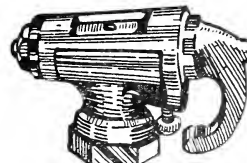


The Inland Continuous Sprayer is so constructed that it not only sprays on the downward stroke of the plunger but also when it draws back, thus causing a continuous mist-like spray.

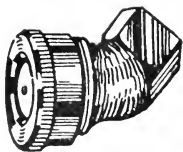
The air chamber measures 1½ inches in diameter by 14 inches long. Has a ¼-inch steel plunger rod; special type plunger. The sprayer is fitted with a 3-16 inch brass ball check valve. The solution tank is made from heavy IX tin, ¾-inch zinc filler cap. Capacity one quart. Extra tip for spraying upwards, with each machine. Weight, 1½ lbs. Price, \$1.00.

Pump Extras

PRESSURE GAUGE—Price, \$2.00; postpaid, \$2.10. **BORDEAUX NOZZLES**—



This nozzle is a new pattern which eliminates the common objections to this type. The handle is built close down to the body and is shaped so as to avoid catching in the branches. The corners of the slot are cut away leaving plain straight faces which form a clean-cut spray without ragged edges. Price, 75c; post 80c.



WHIRLPOOL—This has a very large capacity, and makes a perfect cone-shaped spray. This nozzle is built on an angle of 45 degrees, allowing the operator to spray up or down by simply turning the nozzle. Price, 75c; postpaid, 80c.



VERMOREL—This nozzle throws a beautiful, misty, circular spray. All trouble caused by clogging in the bend is avoided by having the stem detachable. This also allows the nozzle to be turned to any angle desired.

Price, 75c; postpaid, 80c.



BEAN BEST—Throws a fine circular spray a long distance.

There are no parts to catch on the limbs, and the nozzle is fitted

with a steel cap, which does not cut out easily. A second cap with larger hole is also furnished with each nozzle. Price, 75c; postpaid, 80c.

BEAN WHITEWASH—The nozzle throws a fine spray or a solid stream. It is particularly recommended for whitewashing and for washing buggies. To clean when clogged, turn the thumb screw straight out for an instant. Price, 75c; postpaid, 80c.

Hose Connections



HOSE CONNECTION—To connect 1/4-inch hose to spray rod. Price, each, 25c; postpaid, 30c.

Spray Hose Menders. Price, 25c; postpaid, 30c.

Spray Hose Coupling



With hexagon nuts and double length shank, so will not putt or blow out.

Price, per pair, 55c; postpaid, 60c.

Female half only, 30c; postpaid, 35c.



1/4 NOZZLE Y—The Brass Y shown here will screw on any spray rod, and all kinds of spray nozzles screw into the other two ends. This is intended for use when two nozzles on one rod are desired.

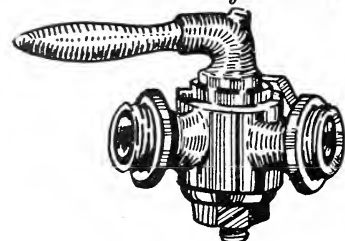
Price, 50c; postpaid, 55c.



1/4 NOZZLE ELL—It is very important to spray down into the blossom. This piece has just the right angle and screws onto the end of any spray rod. Then attach the nozzle.

Price, 25c; postpaid, 30c.

Three-Way Discharge Cock



This has a large barrel which allows it to cut off absolutely, and eliminates the trouble that has been experienced with inferior Cocks.

Price, \$1.50; postpaid, \$1.60.

Spray Cut-Off

This 1/4-inch shut-off is for use on spray rods in place of globe valves. Shuts liquid off instantly, saving time and material. Can be put on any rod.

Price, 60c; postpaid, 65c.



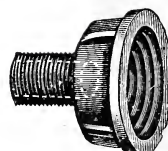
The perfect 1/4-inch rod cut-off. Far better than a globe valve for it opens full with less than one turn of the handle. Better than any lever cut-off because it will not leak since the ball revolves instead of wearing. Fits any spray rod. Price \$1.00; postpaid, \$1.10.

Two of these clamps can be used on our long shank couplings and mender.

Price, postpaid, 5c; dozen postpaid, 50c.

Hose Reducers

These are for connecting a male hose coupling on end of spray hose to the spray rod. The two-piece connection has a swivel joint and is easy attached. When the one-piece connection is used the entire rod must be turned in screwing on. Price, one-piece reducer, 20c; postpaid, 25c.



Spray Hose.

The high pressure and corrosive and oily materials used in spraying are very destructive on ordinary spray hose, and have caused many persons to believe that hose for this purpose cannot be relied upon to last out a season's hard usage. Our Spray Hose is constructed and treated on purpose for this use, and as it saves annoyance and lasts longer, it is much more economical. Furnished in 12 1/2, 25 and 50 foot length, fully guaranteed. Price, 7-ply, 20c per foot; 5-ply, 15c per foot.

Fittings, 75c extra. Fittings consist of one hose connection, one female coupling and four hose clamps. Hose Washers, 1/2-inch rubber, doz., 10c.

Bamboo Extensions.



The bamboo used in making our extension is a nice size to hold in the hands and is smooth and little affected by either heat or cold.

ALUMINUM ROD.

8-foot Bamboo Extension, with aluminum pipe \$2.50.

10-foot Bamboo Extension, with aluminum pipe \$3.00.

12-foot Bamboo Extension, with aluminum pipe \$3.50.

IRON ROD.

8-foot Bamboo Extension, with iron pipe, \$1.25.

10-foot Bamboo Extension, with iron pipe, \$1.50.

12-foot Bamboo Extension, with iron pipe, \$1.75.

IRON ROD ONLY

5-foot, 50c; 8-foot, 65c; 10-foot, 80c.

SPRAY MATERIALS AND INSECTICIDES

The secret of successful spraying lies in knowing the correct time in which to spray.

The very important fact that thoroughness in spraying is one of the main points to be remembered. Many failures can be traced to the lack of thoroughness.

It is also important that the orchardist should become familiar with the name and character of the different diseases and pests. If the disease is not known apply to your inspector for information. Specimens of diseased fruit or leaves, or other portions of trees or plants, may be forwarded to your state experiment station at no cost, where a careful microscopical examination will be made and the disease identified.

(Continued on Page 49).

AFFECTING THE ROOTS—

NAME	DESCRIPTION	TREATMENT
1. Woolly aphids	Small galls containing mealy insects.	Expose roots, wet with one per cent potassium cyanide solution or tobacco.
2. Grubs and Wireworms	Feeding on the roots.	No alternate treatment. Seek out and destroy insects.
3. Gophers	Feeding on the roots.	Trap; or poison with raisins containing strychnine placed in runways.
4. Hairy-root	Excessive development of fine roots.	No remedy except careful nursery inspection. Do not plant affected stock.
5. Crown gall	Smooth to warty swellings of various sizes.	No remedy except careful nursery inspection. Do not plant affected stock.
6. Crown-rot	Dead, sunken bark at crown of tree.	Avoid forcing the growth of young trees.

AFFECTING THE CROWN OR TRUNK—

7. Rabbits, Field mice	Gnawing bark in winter.	Keep trunk coated throughout winter with thick whitewash containing strong lime-sulphur.
8. Borers	Tunneling beneath bark or into heartwood.	Keep trunk coated throughout summer. See No. 7.
9. Canker	Irregular, discolored sunken areas.	No remedy when these cankers are due to winter injury. If black-spot canker, November spraying with Bordeaux (6-6-50).
10. Black-heart	Heartwood dead and stained blackish brown.	No remedy known.

AFFECTING THE BRANCHES AND TWIGS—

11. San Jose Scale	Ash-gray or black, round scales, pinhead in size.	Crude oil emulsion spray or lime-sulphur about March 1.
12. Oyster-shell bark-louse	Slender bark-colored scales filled with eggs, which hatch about June 1 (one brood a year).	1. Tobacco-sulphur (3%), or crude oil emulsion spray, in fall or early spring. 2. Tobacco spray.
13. Woolly aphids	Clusters of mealy lice, often near injured bark.	Crude oil emulsion.
14. Orchard mite eggs	Microscopic salmon-red spherical eggs.	Crude oil emulsion, or lime-sulphur (3%) before buds swell, or tobacco when plant-lice hatch.
15. Aphid eggs	Minute oval jet-black eggs (winter).	
16. Tent caterpillar eggs	Frothy mass encircling a twig.	Crude oil emulsion before buds swell, or tobacco when scales hatch.
17. Lecanium	Hemispherical brown scales.	Crude oil emulsion.
18. Cottony scale	Brown scales that develop cottony mass in the fall.	Prune off infected twigs before eggs hatch.
19. Cicada and tree cricket	Twigs slit to contain eggs.	Not likely to attack vigorous trees. No immediate treatment.
20. Bark beetle	Tunneling under bark.	Winter spray with lime-sulphur (3%).
21. Lichens	Popularly known as moss.	Caused by scale, bacteria, aphids, over-irrigation, etc. Remedy depends on cause.
22. Gummosis of cherry	Glistening mass of amber-colored gum on branches.	Prune away dead and blighting branches and wash pruned surfaces with 1 part of corrosive sublimate to 1000 parts of water. Bulletin No. 56.
23. Fire-blight, Pear, Apple	Dead leaves and fruit hanging to blighted branches; blackish, water-soaked cankers.	No remedy. Remove dead wood. Avoid late irrigation.
24. Winter-kill or die-back	Death of twigs or branches from tip downward.	Prune out dead twigs. Spray in winter with oil emulsion.
25. Peach blight	Spotting of green twigs and formation of a gum.	

AFFECTING THE BUDS, NEW LEAVES, OR BLOSSOMS—

26. Bud-weevils	Hard-shelled beetles that drop when disturbed.	Use inverted cone tree-protector of stiff paper in tin.
27. Curculionids	Work at night; live in ground during day.	Coat tree with Bordeaux. Scatter poison mash on ground near tree.
28. Ants	Eating buds, young leaves, and blossoms.	Four 1 per cent potassium cyanide solution in nest (deadly poison).
29. Budworm: twig-borer	Working in terminal growth furling leaves.	1. Crude oil emulsion, or lime sulphur (3%), before buds swell.
30. Snapping beetle	A small brook spinning worm.	2. Arsenate lead when injury noticed.
31. Chafer beetle	Feeding in the blossoms.	No treatment.
32. Salmon-fly	Eating through the blossoms.	No treatment.
33. Thrips	Feeding in the blossoms.	Spray with arsenate of lead.
	Minute, active, slender insects.	Tobacco.

AFFECTING THE FOLIAGE—

34. Tent caterpillars	Working from web-nests.	Spray as soon as caterpillars appear with arsenite of zinc, or burn with torch.
35. Tussock moth	Caterpillars covered with bunches or hairs.	Spray as soon as caterpillars appear with arsenic of zinc.
36. Red-hump caterpillar	Striped caterpillars with red head and collar.	Spray with Bordeaux. Scatter mash about orchard.
37. Green-striped caterpillar		See No. 27.
38. Green-striped caterpillar		
39. Pear and cherry slug	Slimy caterpillars feeding on surface of leaves.	Spray with arsenate of lead; or dust with lime, ashes, or road dust.
40. Black aphids	On cherry	Spray early with tobacco, before leaves curl.
41. Green aphids, Pink aphids		Tobacco (summer), or lime-sulphur (3%), or crude oil emulsion in winter, No. 15.

No summer treatment. Crude oil emulsion or lime-sulphur when dormant.
Tobacco spray. Use high pressure and disk nozzle to form mist. Tobacco when noticed. See No. 14.
Spray in winter and early spring before leaves appear; use lime-sulphur.
Spray with self-boiled lime sulphur.
No remedy known.
Spray with lime-sulphur during dormant season.

No summer treatment. See No. 11.
Tobacco when young hatch (about June 1).
Arsenate of lead as soon as injury is noted.
Spray with Bordeaux (4-4-50) just before blossoms open; lime-sulphur (15") after petals fall, and repeat after 10 or 14 days. Destroy all fallen leaves.
No remedy known.
No sure remedy known.
Spray with lime-sulphur in summer.
Spray with arsenate of lead, 1 lb. to 50 gals. of water, using Bordeaux nozzle with crook. Spray with force from a raised platform into every flowered.
No satisfactory summer treatment. See 29.
No known treatment.
Do not leave too long on trees.

Cover every surface. Wet behind the bottom of every crack. Fill nozzle with crook. Spray from a tower if the trees are beyond your reach. Write for bulletin on spraying.

Arsenate of Lead

Arsenate of lead (poison)..... 1 pound
Water 50 gallons
For newly hatched insects it is not necessary to use it stronger. For old or large insects use double the quantity. Mix the paste well with a small amount of water. Powdered arsenate of lead is about twice as strong as the paste. Do not use arsenate that settles quickly or feels gritty. Agitate while spraying.
Arsenate of zinc powder is about four times as strong as paste lead. It may scorch in a damp season.

Spraying Program for the More Usual Sprayings

1. Before buds begin to swell
Crude oil emulsion or lime sulphur (3°) for scales and insect eggs
Tobacco
For aphids, orchard mites, thrips, leaf-hoppers
With arsenate of lead added
For budworm, twig-borer
2. When new foliage is first appearing
Tobacco
For budworm, twig-borer
3. When flower clusters are ready to open
With Bordeaux (4-4-50)
For apple and pear scab
Lime-sulphur (1.5°) with tobacco added
For orchard mites, thrips, aphids
4. When last petals are falling
Arsenate of lead, 1 lb. to 50 gal.
For codling moth.
5. In November (for Western Washington)
Bordeaux (6-6-50)

Red, brown and black spots on pair.....
Sucking insects producing yellow spots in leaves.....
Causing leaves to yellow.....
Leaves puckered, becoming rose-colored or purple.....
Whites patches on leaves, twigs and fruit.....
Cessation of twig growth and rosetting of leaves.....
Brown spots on leaves, later falling out.....

Usually surrounded by red ring.....
Shaped like miniature mussel-shell.....
Several species may nibble on skin.....
Dull greenish-black patches on leaves and fruit.....
Small circular brown spots, giving rise to spore-tufts.....
Brown, hard sunken spots or elevations.....
Skin spots appearing before harvest, working into fruit.....
The common worm in apple or pear.....

Same insect as twig borer.....
Green caterpillar mining in fruit.....

Spray thoroughly. Direct your attention to the hardest places to reach. Do not try to economize on spray. For all orchard spraying use a high pressure pump (at least 200 lbs.) Use Bordeaux nozzles. Fill Use an 8-ft. spray rod. Have a crook to set the nozzle at an angle of 45 degrees. Spray from a tower if the trees are beyond your reach. Write for bulletin on spraying.

Oil Spray

Crude oil emulsion for winter spraying:
Fish-oil soap..... 20 pounds
(Dissolved in 20 gal. hot water)
Mix and add water to make 177 gal., run agitator at full speed, and add
Crude oil 20 gallons
When emulsified do not add anything else to the spray-liquid, or free oil will separate.

Tobacco

Blackleaf 40 12½ pounds
Fish-oil soap 35 pounds
Water 1000 gallons
Dissolve the soap in hot water. Blackleaf (old style) is one-tenth as strong.
For orchard mites or scab add 36 gallons of 32° lime-sulphur.

Bordeaux

Bluestone 6 pounds
Good lime 6 pounds
Water 50 gallons
Dissolve the bluestone by suspending it in a sack in 25 gallons of water in a barrel. Slake the lime in another vessel, adding a little water slowly. Even the best Bordeaux may scorch in rainy weather.

Poison Mash

Bran or flour 25 parts
Paris green or zinc arsenite 1 part
Mix dry, add water to form a stiff mash and season with stale beer or molasses. In case of certain infestation double amount of poison

42. Blister-mite
43. Leaf hopper—Tingis
44. Orchard mite
45. Peach leaf-curl
46. Powdery mildew
47. Rosette
48. Shot-hole diseases
AFFECTING THE FRUIT—

AFFECTING THE FRUIT—

Infesting Outside of Fruit:
49. San Jose Scale
50. Oyster-shell scale
51. Caterpillars
52. Apple scab
Infesting Inside of Fruit:

53. Brown rot of brunes
54. Fruit rot of apricot
55. Baldwin speck fruit spot
56. Codling worm
57. Peach worm
58. Apple saw-fly
59. Water core

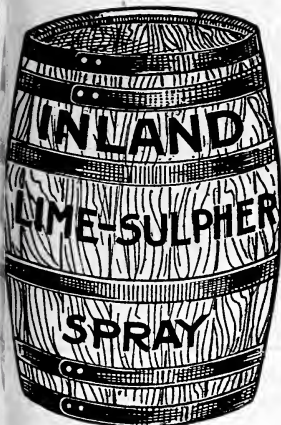
HOW TO SPRAY

Lime-Sulphur

Fresh stone lime..... ½ pound
Sulphur 1 pound
Water ½ gallon

Slake the lime in the cooker. Add the sulphur and the water. Boil briskly till the sulphur is dissolved (about 45 minutes), stirring continuously and keeping the cooker covered. As it boils down keep adding water. When finished let settle. Use only the clear liquid, which may be stored if kept from the air. Prepared in this way lime-sulphur should have a hydrometer reading of about 26 degrees, but little weaker than the factory-made product. Write for bulletin on lime-sulphur—Popular Bulletin No. 28.
For use, any concentrated lime-sulphur may be diluted according to the following table:

Hydrometer test of concentrate		To make dilute spray	
Baume Degrees	Specific Gravity	Baume, 3°	Baume, 1.5°
34	1.302	Sp. gr. 1.02	Sp. gr. 1.01
32	1.279	1 lb. sulphur in 5 gal.	1 lb. sulphur in 10 gal.
30	1.259	Winter spray	Sum'r spray
28	1.236	1 to 14 water	1 to 28
26	1.215	12	26
24	1.193	11	23
22	1.171	10	22
20	1.148	9	20
18	1.126	7	18
16	1.102	6	16

NL AND LIME and SULPHUR SOLUTION

It is a true calcium sulphide—a true calcium sulphide means a perfect chemical combination of lime and sulphur, absolutely free from all sediment, absolute uniformity which guarantees the same identical treatment as to strength and effect tree for tree, and which allows the wash to be applied to delicate bud life, blossom condition and foliage as well as the dormant tree, both for fungicidal and insecticidal troubles as well as San Jose Scale, Oyster Shell Bark Louse, Moss, Apple and Pear Scab, Slub Worms,

etc. The wide range of diseases that fruit trees are subject to that it will control, proves it to be the best general fruit Sprayer that has yet been discovered. Price, gallon, 75c; 5 gallons, \$2.00; case, \$5.75; barrel, \$9.00; for large quantities, write for price.

SOLUBLE SULPHUR COMPOUND

This compound is analogous in chemical form to the calcium polysulphides of a high grade lime-sulphur solution.

Extensive use of this material during the past three years, and its entering into nearly every fruit district of the United States and Canada, fully demonstrates the value, economy and convenience of Soluble Sulphur Compound.

Soluble Sulphur is the sulphur spray with the water left out.

It is ready for the user to add the water and in an instant have a true sulphur solution. It dissolves easily, it being necessary to stir for a few moments only as the material is put in the water. Once dissolved it remains in solution for an indefinite time.

One hundred pounds of Soluble Sulphur Compound makes more spray than a fifty-gallon barrel of thirty-three degree lime-sulphur solution weighing over eight hundred pounds, thus effecting a saving on freight charges.

There is no leakage, no freezing, no crystallization. It is the most economical of all sprays used as lime-sulphur as an insecticide and fungicide. It should be used on all kinds of trees and shrubs in spring, before buds open, for Scale, Aphids, Curl Leaf, Mildew, and as a general clean-up; and later or control of Scab and Fungus Diseases.

Soluble Sulphur Compound will keep indefinitely, without loss of strength, if the can is kept tightly covered and in a dry place.

PRICES.

1-pound can, 20c; postpaid, 30c.
10-pound can, \$1.25; postpaid, \$1.50.
100-pound drum, \$7.50.

BLACK LEAF "40"**A Concentrated Solution of Nicotine-Sulphate (Poison)**

For the convenient information of those desiring to use "Black Leaf 40" the following suggestions are made:

Against sucking insects, such as Green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrips, etc., 1 part "Black Leaf 40" to about 900 to 1000 parts water.

Against more resistant plant lice, such as Black Aphis and Rosy Apple Aphis, 1 part "Black Leaf 40" to about 500 or 700 parts water.

The addition of one or two pounds of any good gallons soap, or of Whale Oil Sap, to each 50 gallons of water is often very advantageous. When using dissolve the soap in the water before adding "Black Leaf 40."

Price, ½ lb., tin, postpaid, 85c; not postpaid, 75c; 1 lb., tin postpaid, \$2.65; not postpaid, \$2.50; 10 lb. tin, postpaid, \$11.00; not postpaid, \$10.75.

Bluestone

Used successfully in winter sprays. 1b., 15c, postpaid. If wanted in 100-lb. or barrel lots, market price.



The superior qualities of this article as an insecticide are already well known.

Arsenate of Lead is a chemical combination of lead and arsenic. The arsenic is the poisoning agent. The lead serves two purposes—it acts as a binder, holding the arsenic upon the foliage and forms a strong chemical union with the arsenic, reducing to the minimum soluble arsenic, which causes foliage injury.

Grasselli Arsenate of Lead-Paste contains 15 per cent arsenic oxide, combined with the maximum amount of lead consistent with good mixing qualities. It contains less than ¼ of 1 per cent soluble arsenic and will not injure the most delicate foliage when used according to directions.

It kills all leaf-eating insects. Mixes readily with water. Sticks to the foliage.

Grasselli Arsenate of Lead conforms to the most rigid requirements of National and State Laws governing the manufacture and sale of insecticides.

Prices—One lb., 25c; 5 lbs., \$1.10; 10 lbs., \$1.50; 20 lbs., \$2.50; 50 lbs., \$5.25; 100 lbs., \$9.50.

Grasselli Dry Powder Arsenate of Lead mixes quickly and easily; stays mixed longer and is very adhesive. Dry Powder Arsenate is a light, fluffy powder that cannot freeze, dry out, cake or lose its strength.

Grasselli Arsenate of Lead Powdered may be mixed with water and applied as a liquid spray or it may be used as a dust spray. If applied as a liquid spray it is usually used 1 pound to 1½ pounds to 50 gallons of water. For Potato beetles and other insects that are hard to kill use two to three pounds to 50 gallons of water. If used in the dust form it may be applied as received by finely dusting on the foliage or it may be mixed with an equal bulk of freshly burned wood ashes or powdered lime. 100 lbs., \$22.50; 50 lb. kegs, \$12.00; 5 lb., \$1.75; 1 lb., 40c. One and five pounds can be forwarded by mail; postage additional.

GRASSELLI SULPHATE OF NICOTINE

Grasselli Sulphate of Nicotine, Guaranteed to Contain 40% Nicotine.

This product is recommended to destroy most plant lice, such as Woolly Aphis, Green and Rosy Apple Aphis, Rose Aphis, Pear Psylla and Grape Leaf Hopper, in orchards, vineyards and truck crops. Apply as soon as plant lice appear. As a general rule, use three-fourths of a pint to one pint to one hundred gallons of water, or one to two teaspoonfuls to one gallon of water.

Nicotine Sulphate may be combined with Arsenate of Lead or Lime Sulphur Solution, or both. ¼ lb., 50c, postpaid, 55c; ½ lb., 35c, postpaid, 95c; 1 lb., \$1.50, postpaid, \$1.60; 2 lbs., \$2.75, postpaid, \$2.85; 10 lbs., \$1.75, postpaid, \$12.00.

GRASSELLI BORDEAUX MIXTURE PASTE

A fungicide for Potato Blight, Potato Rot, Mildew, Leaf Blight, Cutworms, etc. Before bloom use 1 lb. to 6 gallons of water, after bloom use 1 lb. to 10 gallons.

Price, 1-lb. jar, 35c; 5 lbs., \$1.25.

FORMALDEHYDE

This has proved to be much better than vitrol, etc., for treating grain to prevent smut or for treating potatoes to prevent blight and scab. One pound is sufficient to treat 40 to 50 bushels of grain. 1b. bottle, 40c; cannot be sent by mail.

Paris Green

Poor Paris Green is dear at any price. Effective against all chewing insects. $\frac{1}{4}$ lb., 15c; postpaid, 20c; $\frac{1}{2}$ lb., 20c; postpaid, 25c; 1b., 35c; postpaid, 40c.

Whale Oil Soap

For hop louse and green aphids. Lb., 10c; postpaid, 15c; 100 lbs., market price.

Quassia Chips

Used with Whale Oil Soap for lice on cabbage, cauliflower, etc., and on fruit trees. Lb., 15c; postpaid, 20c.

Hammond's Slug Shot

For destroying slugs, cabbage and turnip flea, currant worms, etc. Lb., 15c; postpaid, 20c; 5 lb. pkg., 60c; postpaid, 70c.

Sulphur

Powdered, 1b., 5c; postpaid, 15c; 100 lbs., market price.

Hommand's Grape Dust

To prevent mildew on roses, grapes and gooseberries. Lb., 15c; postpaid, 20c; 5 lb. pkg., 60c; postpaid, 70c.

Tobacco Dust

For green and black aphids, fleas, beetles. Lb., 10c; postpaid, 15c; 10 lbs., 75c; postpaid, 85c.

Woodlark Squirrel Poison

Requires no mixing—preparation—always ready for use. When you buy demand the best. Get the "Woodlark" brand. Weight, $1\frac{1}{2}$ lbs. Price 35c; postpaid, 45c.

Nico-Fume Tobacco Paper

For fumigating greenhouses and other places where fumes can be confined. Considered indispensable by our most successful greenhouse men.

Price, 24 sheets, 75c; 144 sheets, \$3.50.

Hellebore

Especially used for destroying turnip, currant and gooseberry worms, larve of sawflies, etc. Lb., 35c; Postpaid; 3 lbs., \$1.00, postpaid.

SULPHO-TOBACCO

Sulpho-Tobacco plant and Animal-Soap is a wonderful agent for the destruction of all bugs and insects. One or two applications will rid plants of the pests.

Destroys cabbage, squash, and potato bugs, currant worms, lice, green-fly, mealy bug, red spider, etc. Is also valuable as a wash for dogs and other animals.

3 oz. cake makes $1\frac{1}{2}$ gallons solution. 10c; postpaid, 15c
8 oz. cake makes 4 gallons prepared solution. 20c; postpaid, 25c.



TREE TANGLEFOOT



To protect trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bary of trees. One application remains sticky three to four months fully exposed to the weather. Easily applied with a wooden paddle. One pound makes a band 8 to 9 feet long. No mixing, always ready for use.

Will not injure trees.

Lb. can, 30c; postpaid, 35c; 3 lb. can, 85c; postpaid, 95c.



No. 2

No. 10

No. 11

The Never-Slip Stepladders are constructed of carefully selected No. 1 fir, securely put together with bolts and screws. They have the latest improved steel head, making a ladder, light, strong and durable.

Price, No. 2, Safety Stepladder, per foot.....\$0.50

Price, No. 10 Safety Stepladder, per foot..... .50

Price, No. 11 Safety Stepladder (can be extended, making a pointed ladder), per foot... .60

SPRAYOMETER

The Lime-Sulphur wash for spraying has become recognized by the orchardist as one of the best and most economic remedies for numerous forms of disease, fungi and insects, injurious to fruit trees.

It is necessary to know the strength or weight of the solution and the only practical way of ascertaining this is by means of a Hydrometer. The Hydrometers made for this purpose are known as "Sprayometers." In selecting these instruments consideration should be given to the fact that only the most accurate will give the best results, and that "Taylor-Rochester" is a synonym for accuracy. Price, \$1.00; postpaid, \$1.10.

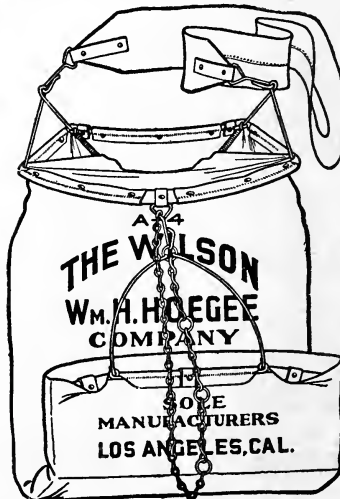
RAFFIA

Natural color; for nursery work. Lb. 25c.

TREE LABELS— $3\frac{1}{2}$ inch wide, 100, 15c; Postpaid, 35c. 500, 60c; 1000, \$1.00.

POT LABELS—4 inch, 100, 15c; 500, 50c; 1000, 85c; 8 inch, 100, 30c; 500, \$2.00; 100, \$1.75.

THE WILSON BOTTOMLESS FRUIT BAGS



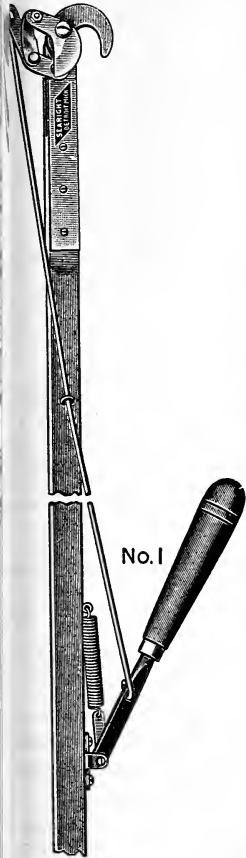
The mouth of the bag is held open by a circular spring wire, which makes it easy to pass the fruit

from the tree into the bag without crowding or jamming. They are hung from the shoulder by a strap, are light, flexible, easy to handle, weighs only two pounds, and when filled holds one-half bushel. When climbing into a tree the picker swings the bag behind his arm, leaving only room enough to pass in the fruit. There is no question about the economy and the advantage in handling fruit with the use of the Wilson bag. A good picker can pick enough more, and to a better advantage with one of these, and pay for its cost in two days. Weight, lbs. Price, express or freight, \$1.75.

Edgemont Lid Prices

All fruit growers sooner or later feel the need of a good, durable and handy **LID PRESS**.

SAVING TIME is just as essential in the packing-house as it is in the shop or factory. A number of the special features of the Edgemont Lid Press are time savers, which are quickly appreciated by the user. The stripper nail box delivering the nails all pointed down; the placing of the lids in position endwise by the clamping yoke; the little spring attachment holding the cleat in place, all tend to make nailing an easy, quick and simple operation. Price \$15.00.



Searight — This has a compound lever head and is made with a hook and side lever. It is calculated for heavy work and will cut a limb up to 1 1/4 inches in diameter. Instead of running the rod connecting the knife lever along one side the pole to a handle lever, the handle lever has been placed on the opposite side, which allows the rod to cross the pole. As a result one-half the strain is thrown on one side of the pole and one-half on the other, which gives about double strength.

The strength, durability and easy cutting qualities of these trimmers will appeal to both the merchant who handles them, and the man who may have the pleasure to use them.

Price, 8 ft., \$2.00.

Price, 10 and 12 ft., \$2.25.



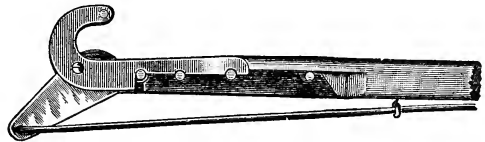
Hand Pruners

No. 4—This pruner will be found second to none in easy cutting qualities, material and workmanship. Price, \$1.50; postpaid, \$1.50.

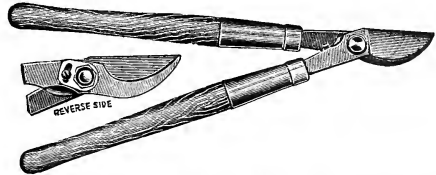
No. 5—Same as No. 4, but not polished. Price, \$1.00; postpaid, \$1.00.



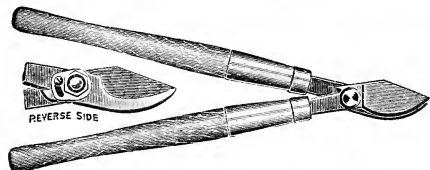
Pruning Tools



Waters'—Indispensable in pruning tall trees. Cannot go by mail. Purchaser will have to pay freight or express charges. Price, 6 ft., 75c; 8 ft., 90c; 10 ft., \$1.00; 12 ft., \$1.15; extra blades, 15c each.



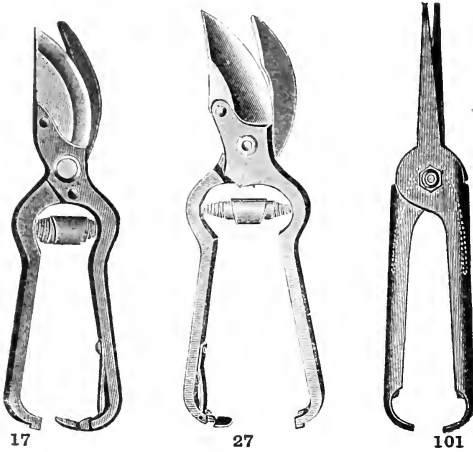
Cronk's Cartright Pattern No. 226—Forged from high grade tool steel and finely tempered, wrought steel ferrule, polished. Has the Cronk patent lock-nut and cannot work loose and ruin the shears. Length 26 inches, weight 3 lbs. Price \$2.00.



Fresno Pattern No. 126—Forged from high grade tool steel, finely tempered. Solid wrought steel ferrule. Has lock nut and cannot work loose and ruin the shear. Strictly high grade and has no equal. Length 26 inches, weight 3 lbs. Price, \$1.75.

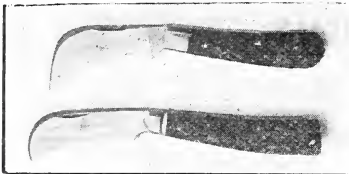
Our Clover Leaf Snowball Cauliflower is selected with great care from the very best strain. Grown in Denmark.

Standard Alfalfa Inoculation, 50c per acre; by mail 55c.

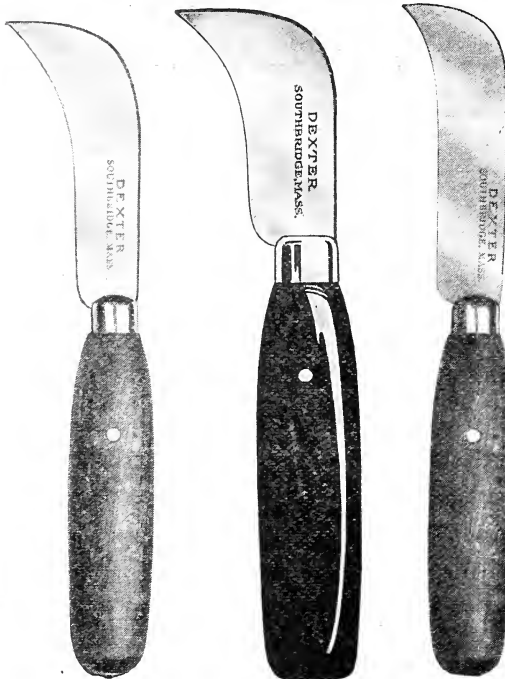


No. 17.—Length 9 inches. Detachable polished tempered steel blade. **Price, 60c; postpaid, 65c.**
 No. 27.—Length 9 inches. Detachable blade of cutlery steel. Notched hook, forged from tool steel, full polished and tempered. **Price, \$1.50; postpaid, \$1.60.**
 No. 101.—Length 6½ inches. Made extra heavy. **Price, 40c; postpaid, 45c.**

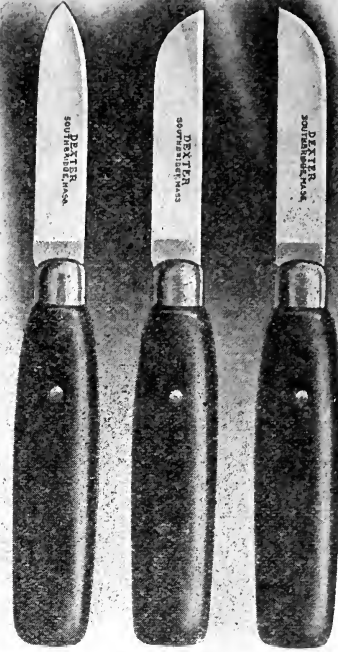
KNIVES



No. 6.—Polished wood handle. **Price, \$1.00; postpaid, \$1.05.**
 No. 7.—Plain wood handle. **Price 75c; postpaid 80c.**



No. PX3H **No. PX761** **No. PX2HS**
 No. PX3H—60c; postpaid, 65c.
 No. PX761—50c; postpaid, 55c.
 PX2HS—60c; postpaid, 65c.



2½V **2½J** **2½Z**

Budding, No. 2½V—50c; postpaid, 55c.

Budding No. 2½J—50c; postpaid, 55c.

Budding Spear, No. 2½Z—50c; postpaid, 55c.

All of the blades are made from a very high grade English crucible tool steel; they are given the proper temper for the particular work required; that all are ground sharp and hand honed, leaving them ready for use. The handles are oval rubberoid of a shape to fit the hand. The ferrules are of heavy construction, oval, nickel plated and the blades are pinned in handles, preventing any possibility of their coming out or becoming loose.

Grafting Wax

One-half lb., 20c; postpaid, 25c; 1 lb., 35c; postpaid, 45c.

Beeswax

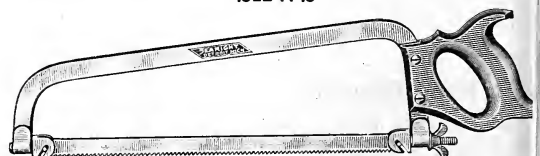
Price, 60c; postpaid, 70c.

"Lightning" Grass Trimming Shears

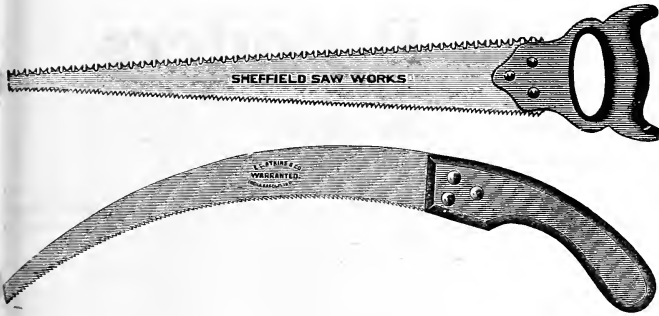
For trimming ground, flower beds, etc. Weight, 1 lb. Each, 50c; postpaid, 55c.

Our business is conducted on a cash basis. Write us for special prices on large lots, stating quantity wanted.

SAWS



Perfection No. 10—This type of saw is the most popular because it is light, is capable of being used at any angle with practically no danger of breaking or buckling the saw. It will cut rapidly, make a clean cut with no danger of wounding the bark. No orchard kit of tools is complete without a saw of this type. Weight, 2 lbs. **\$1.50.**



Duplex No. 16—A double-edged saw, with fine teeth on one side and coarse teeth on the other. Can also furnish this with teeth on one side only. Weight, 1 lb.

No. 16, single edge, 75c; double edge, \$1.00.

No. 24, California Pattern, ground tap-saw, length 14 inches, 75c.

Dog Specialties

THEY FIGHT FOR SPRATT'S



PUPPY BISCUITS (The Standard Puppy Food)—A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits, when about one month old and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old. 3 lb. carton, 35c; mailing weight 3 lbs.

DOG BISCUIT—The analysis of our biscuits show that they are, weight for weight, equal in nourishment to fresh raw beefsteak and superior to it as a food for dogs. The standard dog food; a staple and constant food for all breeds of dogs. 3 lb. carton, 35c; mailing weight, 3 lbs.

CONKEY'S

DISTEMPER REMEDY—Price, 50c; postpaid, 55c.
MANGE REMEDY—For eczema, canker, sore ears, ring worm, 50c.

WORM DROPS—Price, 50c; postpaid, 55c.

SPRATT'S FISH FOOD—The best food for rearing trout, etc. Used at the leading trout hatcheries. Price, 10c; postpaid, 15c.

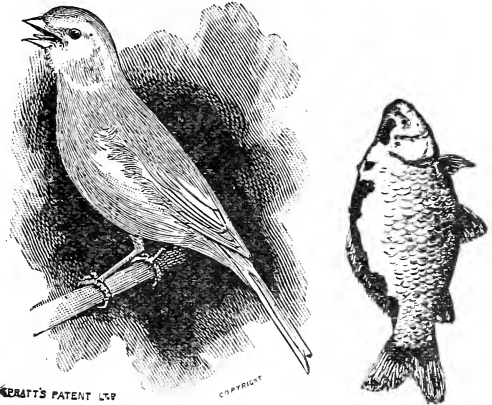
Insist on Clover Leaf Brand

Clover Leaf Brand of Poultry Feeds do not vary in quality; always uniform; always dependable.

Clover Leaf Chick Feed is our own manufacture and is composed of pure, clean ingredients in correct proportions.

Clover Leaf Egg Producer contains the essentials necessary to the highest production of eggs.

Bird Specialties



BIRD MANNA—Keeps cage birds in constant song, improves their plumage and prevents disease. 15c; postpaid, 20c.

SPRATT'S SONG RESTOREE (Dunlap's)—A treat and tonic for canaries, linnets, and all seed-eating birds. 15c; postpaid, 20c.

SPRATT'S BIRD TONIC (Henning's)—For the prevention and cure of all diseases which cage birds are subjected to. Bottles, 15c; not available.

SPRATT'S PARROT FOOD—A mixed food for parrot which should be kept before them all the time. 15c; postpaid, 20c.

SPRATT'S "DEFIANCE" MOCKING BIRD FOOD—The purest food obtainable for mocking birds, robins, thrushes, and other soft-billed birds. 30c; postpaid, 35c.

SPRATT'S PATENT POLICRACKERS—A specially prepared biscuit for Parrots and all similar birds. Made in a convenient size for a bird to grasp. Is greatly relished as a change. 15c; postpaid, 20c.

SPRATT'S "CANARDYNE" (Tibbs)—For asthma and wheezing in cage birds. Bottles, 30c.

BIRD BITTERS—A remedy for nearly all the diseases of cage birds, 25c; postpaid, 30c.

BIRD HEALTH—A condition powder. It should be fed only when your bird is sick, but it should be used as a preventive of disease. 15c; postpaid, 20c.

BIRD NESTS—10c; postpaid, 15c.

Bird Seed

CLOVER LEAF—1b packages, 15c.

CANARY—Per lb., 15c.

HEMP—Per lb., 10c.

RAPE—Per lb., 10c.

MILLET—Per lb., 10c.

CUTTLE BONE—Two for 5c.

SUNFLOWER—Per lb., 10c.

Standard Alfalfa Inoculation, 50c per acre; by mail 55c.

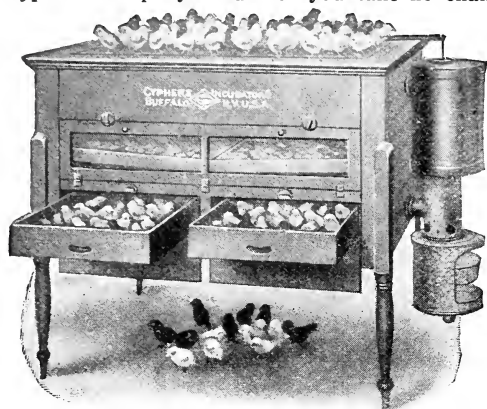
Incubators and Brooders

WE ARE AUTHORIZED AGENTS FOR

Cyphers Company Incubators

Made in Three Styles—Eight Different Sizes

For the season of 1915 we offer our customers the Cyphers Incubator Company's complete line of incubators. These three styles of high-class, guaranteed hatching machines, running through eight different sizes, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company Incubator you take no chance.

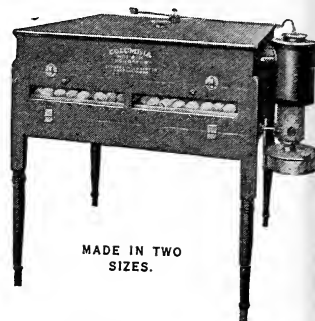


Standard Cyphers Incubators

These are machines that for fifteen years and more have been recognized as the "Standard hatchers of the world." Tens upon tens of thousands of them have been sold and are in successful use in every civilized country on the globe. They are used by more Government Experiment Stations, more large, practical poultry plants, on more successful duck and egg farms, and by a larger number of foremost poultry breeders than all other makes combined. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in all climates, under widely different conditions, in the hands of all sorts of people. They are built to hatch and to last. With ordinary care they should last an ordinary lifetime. Every Standard Cyphers Incubator is guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial. Are built in four popular sizes and at prices as follows: 70 eggs, \$17.00; 140 eggs, \$25.00; 244 eggs, \$36.00; 390-400 eggs, \$43.00.

Columbia Hot-Air Incubators

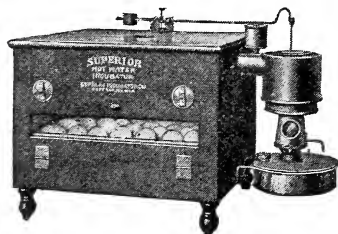
Are built to meet the wide-spread demand for large capacity lamp-heated machines that can be sold at surprisingly low prices and yet be guaranteed to do high-class work. Have wooden cases, attractively finished in dark green, with brass trimmings and double walls. Seamless-bottom lamp bowls, best quality brass burners, zinc and steel Standard Cyphers toggle-joint thermostat and same regulating equipment as used on higher priced machines. Fume-proof, forced draft heater, asbestos covered and metal banded. Automatic in ventilation and embodies diffusive principles. Roomy chick nursery under egg trays. Are made in two sizes: 130-140 eggs, \$17.00; 240-250 eggs, \$22.00.



MADE IN TWO SIZES.

Superior Hot-Water Incubators

These machines are exactly what the name says. They are heated by hot-water, instead of with hot-air and are "superior" in every detail. The water boiler and tank (tubular) are of heavy weight copper. Lamp has seamless bowl; burner is best on market. Incubator case is of wood, attractively finished in golden brown, with brass trimmings (hinges, buttons, etc.) and has double walls, with air space insulation. Are equipped with Standard Cyphers, zinc and steel toggle-joint thermostat and knife-edge regulator. Have forced water circulation and are automatic in ventilation. Roomy chick nurseries. Are built in two sizes: 60-65 eggs, \$12.00; 120-130 eggs, \$16.00.



Brooder Hatcher—This combined Hatcher and Brooder is the result of many years' experiments to bring about desired conditions, making one lamp do double duty, and at the same time to have a machine constructed in a way to do successfully the work artificially. Price, \$8.50.

The Peerless Automatic Incubators

The Peerless 60 All-Metal, Automatic, Incubator. Large enough to give the greatest economy in operation. Small enough to give the greatest efficiency in hatching. Cheap enough so that any man or woman who wants to make money in poultry can afford it.

An altogether new type of Incubator. All metal. Heavily insulated. Blue rust proof enamel finish. Weatherproof. Round. No cold or stagnant corners. Glass Top. Thermometer and egg chamber visible. Top hinged. Entire regulator and lamp underneath incubator. Lamp filled and wick cleaned with lamp in position and flame burning. Draught cannot clog. AUTOMATIC FLAME CONTROL. Regulator automatically adjusts flame to offset changes in temperature. Ventilation automatic. Water Jacket to furnish moisture in egg chamber automatically. One capacity only (60 eggs). Weight 21 lbs. Price, \$7.00.



Brooder Hatcher

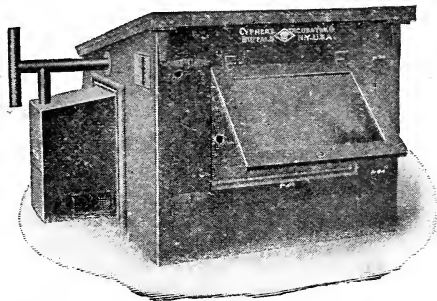
We Are Authorized Agents for

CYPHERS COMPANY BROODERS**Style A Outdoor Brooder**

The Style A Outdoor Brooder is recommended for use of poultry raisers who feel that they do not wish to invest in the larger sized and more costly three apartment outdoor brooders. The Style "A" is equipped with the Cyphers Fire-Proof Brooder heater and Standard Adaptable Hover. Top heat is used exclusively, thus giving the chicks free use of all space underneath the hover. The Adaptable Hover is self-regulating and self-ventilating, and provides a constant supply of fresh, warmed, pure air beneath the hover for the little chicks.

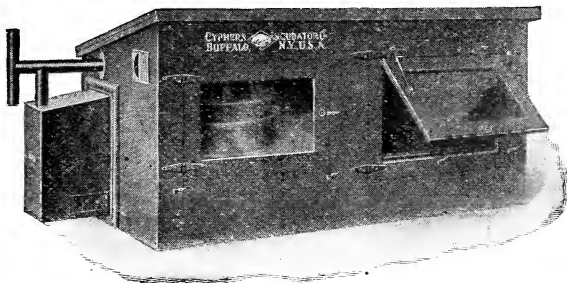
The double frame door of this brooder is of great convenience to the operator—the sill being on the level of the floor makes cleaning easy—while ample ventilation is secured, at the same time preventing rats, cats and other chick enemies from gaining access to the brooder. The outer door, hooked up part way, allows ventilation and prevents rain beating in.

Dimensions: Floor space, 32x32 inches; height, 32 inches in front, 24 inches at rear. Capacity (normal), seventy-five newly hatched chicks, hover space for twice that number. Price \$18.00.

**Cyphers Style A Outdoor Brooder.****Cyphers Style D—Indoor Brooder**

This Insurable Indoor Brooder is practically the same in all respects as the Style A outdoor type, except that the upper half is more convenient in shape and construction for indoor use. This type of brooder, equipped complete with the Standard Cyphers Adaptable Hover, is for use in any kind of building, including rooms in dwellings, or suitable places in barns, sheds, or poultry houses. They furnish a comfortable lodging place for early hatched chicks direct from the incubator.

Dimensions of Cyphers Style D Indoor Brooder: Floor space, 32x32 inches; height, 32 inches in front, 24 inches at rear. Capacity, seventy-five newly hatched chicks; hover space for twice the number. Price \$17.00.

Style B—Outdoor Brooder

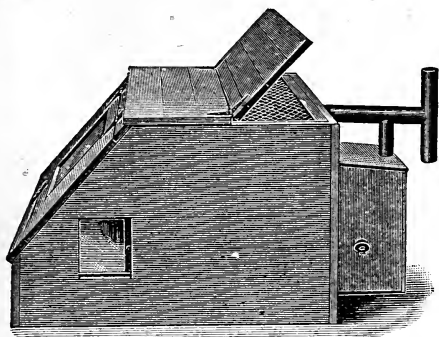
The Style B Outdoor Brooder has all the favorable features found in the Style A, and in addition has a large exercising apartment, thus securing twice the floor space.

All Cyphers 1915 Brooders, Styles A, B and D, are self-regulating, self-ventilating and varmint-proof. They are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose. These outdoor brooders, on account of their fire-proof construction, can be used indoors equally well.

The Style B Brooder has the exercising apartment separated from the hover apartment by a partition. A small chick door in each end of this partition does away with four corners. Each door is covered with a slitted felt curtain, thus keeping drafts out of the hover apartment, while for night use a wooden door will close the opening.

The Standard Cyphers Brooders are not only fire-proof and insurable, but are the most durable, convenient and most efficient indoor and outdoor brooders thus far invented and placed on the market.

Dimensions: Floor space, 32x62 inches, 32 inches in front, 24 inches in rear. Capacity (normal), one hundred newly hatched chicks. Price, \$23.00.

**Cyphers Style D Indoor Brooder.**

The Peerless Automatic Incubator
For price and description see preceding page.

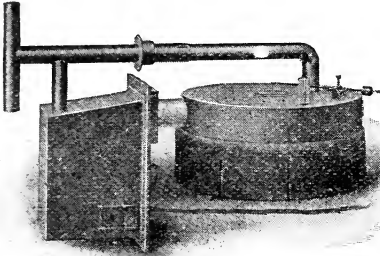


Peerless—The Peerless Brooder is round. It is made entirely of metal with the exception of the flannel hover, and is finished in beautiful blue rust-proof enamel.

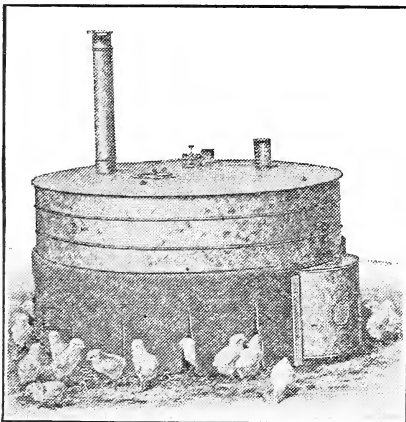
It is the lampless or fireless type. We provide a portable hot water heat retainer.

This retainer is partly filled with water, then heated on a stove or flame. One heating of the retainer every twelve hours is sufficient to keep the hover warm. In mild weather the retainer is needed only for the newly hatched chicks until they are several days old. After the chicks are a week old the animal heat of their own bodies will warm the hover, except in cold weather. Capacity, 50 chicks. Weight, 9 lbs. **Price, \$3.50.**

Hovers



The Cyphers Adaptable Hover is self-ventilating and self-regulating. It supplies a continuous flow of **fresh, pure, warmed** air under the hover, and at the same time maintains a steady, uniform heat. All the essentials of successful brooding of chicks are automatically provided. It is "adaptable" to use in Colony Coops, in portable houses, in home-made brooder coops, such as goods boxes, piano boxes, and organ cases, as well as in large brooding houses. It is constructed entirely of non-combustible material. Capacity, seventy-five newly hatched chicks, or fifty chicks that are ten days to six weeks old. **Price, \$10.50.**



The Cyphers Portable Hover is the only **self-regulating and self-ventilating**, Portable Brooder Hover thus far invented. It maintains a **steady and uniform heat**. It is positively and infallibly automatic in ventilation, preventing the trapping of "dead" air or poisonous gasses underneath the curtain.

This Portable Hover, as its name indicates, can be picked up at any time, all complete, and moved about without hindering its operation. Very convenient for cleaning and moving. Rated capacity, seventy-five newly hatched chicks, or fifty chicks that are ten days to six weeks old. **Price, \$10.50.**



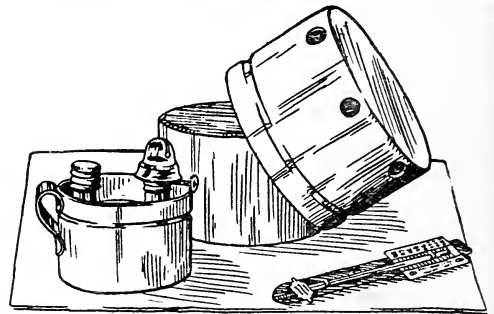
International Portable—The great, distinctive features of the Sanitary Hover are that it is warmest at the curtain, and that the center, being occupied by the lamp holder, is not available for the chicks to crowd in.

The International Sanitary Hover is the one perfect hover. The heat in it is not conducted through pipes and discharged at the center, but radiates downward from a ceiling warmest at the curtain.

Chicks hovered under the Sanitary Hover not only have no incentive to crowd to the center, but really have no center to crowd to.

To get at the lamp, just lift it out. To move the hover, just pick it up. To set up the hover, just set it down. **Price, \$9.50.**

Common Sense Brooder Fixtures

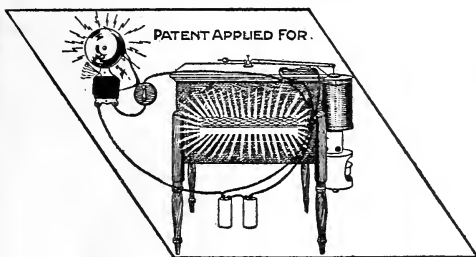


Top Removed, Showing Location of Hover and Heat Retainer.

To those who wish to make their own brooders, we highly recommend the "Common Sense" fixtures. These fixtures include an upper and lower drum, Inland Safety Lamp and Thermometer. The construction of the brooder is simple and the air circulation perfect. For outdoor use the walls should be double and the roof included and covered with roofing.

Manner of Construction—First, put in a tight floor $9\frac{1}{2}$ inches from the bottom of brooder. Then mark and saw out size of large drum on this floor (using drum as pattern), 12 inches from center of side of brooder to center of drum. Secure drum in place, then nail one-inch cleats two feet square under and around the drum cutting out a two-inch hole from cleat and side of brooder to allow air circulation. Nail the lower drum up on these cleats. Bore sufficient holes through two sides of brooder, under this floor, to carry off fumes and furnish air for lamp. For the hover nail thin boards together, making it two feet square. Around this tack oilcloth wide enough to reach floor when hover rests on drum. Set the lamp under center of drum. **Price, \$3.50.**

Electric Alarm and Lighting System



These outfits may quickly be installed in any standard box incubator by anyone who can read the directions and can use a screw-driver. A specially constructed thermostat placed in the egg chamber and is adjusted and set so that an alarm bell rings when the temperature goes above or below any two desired points, for instance 98 and 105 degrees. If your lamp goes out you know it before the eggs are chilled. If the lamp burns too high or the regulator fails to work promptly or properly, your hatch can not be spoiled, for the bell will ring and continue to ring until you shut it off. **Price complete, with one bell, battery, tantalum lamp wire, switches, full directions, etc. Weight 7½ lbs. System complete, \$4.00. Each additional system without bell or battery, \$2.75.**

Pedigree Egg Trays

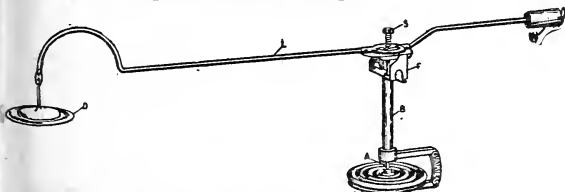
Pedigree Trays are in demand by poultry raisers who use trap nests of various kinds for special breeding purposes. They are a valuable aid to systematic, scientific poultry breeding. By their use the eggs placed in a No. 0 or No. 1 Standard Cyphers Incubator can be kept in four separate lots; also the chicks that hatch therefrom, and the eggs in a No. 2 or No. 3 Standard Cyphers can be kept in eight separate lots, also the chicks that hatch therefrom. **Price, each, for No. 1 Cyphers Incubator.....\$3.25**
Price, each, for No. 2 Cyphers Incubator..... 3.50
Price, each, for No. 3 Cyphers Incubator..... 3.75

Cypher's Moisture Device

Cyphers Incubators are known the world over as non-moisture machines, where the surrounding atmosphere is in its normal condition. There are, however, exceptional conditions, existing in arid districts and in high altitudes of mountainous regions. The device is placed on the air chamber of the heater. **Weight, 2 lbs. Price, \$1.75.**

Felts

For No. 1 Cyphers Incubators, each.....\$0.50
For No. 2 Cyphers Incubators, pair..... .75
For No. 3 Cyphers Incubators, pair..... 1.00



Regulators

In this Regulator the water is inverted and as it expands it acts through the short lever beneath it on the connecting rod, and the down pull of the connecting rod so moves the top lever as to lift the damper. Accurate adjustment is secured through the adjustment nut and the upper end of the connecting rod. **Weight, 12 oz. Price, \$1.50.**

Wafer Thermostat



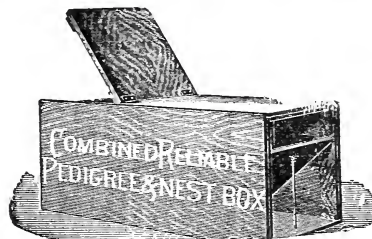
The Wafer Thermostat is made of two round concave discs, sealed together at the outer edge. The cavity between them is filled with a volatile liquid which is very sensitive to changes in temperature. **Price, postpaid, 50c.**

X-Ray Egg Tester



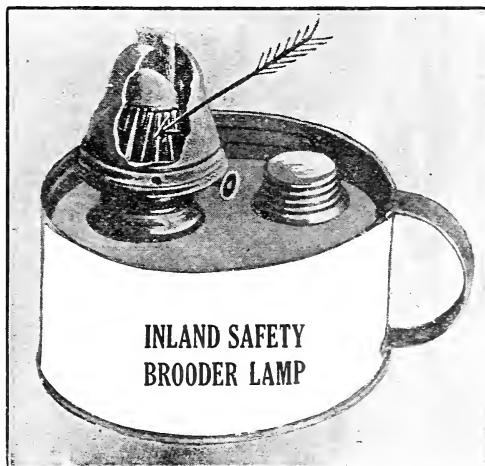
X-Ray Egg Tester in made with a central cylinder, 5¼ inches high, with an outside diameter of 2½ inches at the base and 2¼ inches at the top. It is designed for use on an ordinary hand lamp. In a dark room the light will be strong enough to penetrate the shell and illuminate the interior of the egg. **Price, 25c; postpaid, 30c.**

The Reliable Pedigree Nest Box



The best and most successful breeders in the country are at present following the pedigree plan and using automatic nest boxes of some kind. They can be used either for pedigreering the stock or as an ordinary nest box. **Price, \$3.00.**

LAMPS



The Inland Safety Brooder Lamp requires no chimney; never smokes, and burns a steady flame. The air fingers carry fresh air direct to the flame. This gives perfect combustion and more heat for a given amount of oil than with any other burner. **Weight, 1¼ lbs. Price, \$1.00; postpaid, \$1.10.**

Lamp complete for No. 0, Cyphers Incubator, \$1.00; postpaid, \$1.10.

Lamp complete for Nos. 1, 2 and 3, for Cyphers Incubator, \$1.10; postpaid, \$1.20.

Incubator Lamp, No. 3, burner ¾ inch diameter, 1½ inch wick. Price, \$1.10; postpaid, \$1.20.

Incubator Lamp, No. 2, burner 2½ inches diameter, 1 inch wick. Price, \$1.00; postpaid, \$1.10.

Brooder Lamp, No. 3, burner ¾ inches diameter, 1½ inch wick, chimney 3¼ inches by 7 inches. Price, \$1.40; postpaid, \$1.50.

Brooder Lamp, No. 2, burner 2½ inch diameter, 1 inch wick, chimney 2½x6 inches. Price, \$1.25; postpaid, \$1.35.

Brooder Lamp, No. 32, burner, chimney ¾x3¼ inches, wick 1 inch. Price, \$1.00; postpaid, \$1.10.

Wicks

No. 1, 20c per doz.; No. 2, 20c per doz.; No. 3, 25c per doz., all postpaid.

Lamp Bowls

For Incubator or Brooder to take No. 3 burner. Price, 65c; postpaid, 75c.
For Incubator or Brooder to take No. 2 burner. Price, 65c; postpaid, 75c.

Burners

No. 2 for No. 0 and No. 1 Cyphers Incubators. Price, 35c; postpaid, 40c.
No. 3 for No. 2 and No. 3 Cyphers Incubators. Price, 45c; postpaid, 50c.
No. 1 zenith, no chimney, * inch wick. Price, 45c; postpaid, 50c.
No. 2 zenith, no chimney, 1 inch wick. Price, 45c; postpaid, 50c.
No. 32, 3¼ inch chimney, 1 inch wick. Price, 45c; postpaid, 50c.

Chimneys

Chimneys for No. 2 burners. Price 25c; postpaid, 30c.
Chimneys for No. 3 burner. Price, 30c; postpaid, 35c.
Chimney 3¼x3¼ inches, for No. 32 burner. Price, 30c; postpaid, 35c.

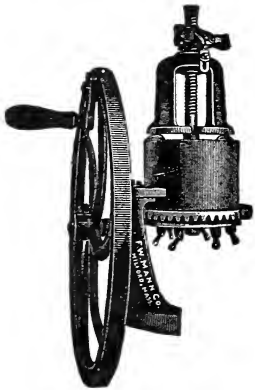
Collars

For No. 3 and No. 2 burners, 10c each.

Eocene Oil

Best for incubators and brooders. Write for prices.

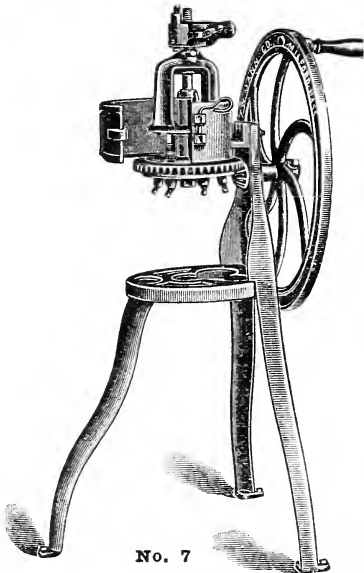
Mann's Green Bone Cutter



No. 5 B.

MANN'S NO. 5 B—Has four knives, large cylinder, and has the latest patent (automatic, governing spring feed), which makes it one of the best. Price, \$10.50.

NO. 5 B. M.—Mounted on iron stand, no expense to set it up. Place for pan to catch the bone. Patented automatic governing spring feed. Cylinder, 6 inches diameter, 4 inches deep. Cutter plate has four knives. Will cut faster and easier than other types. Price, \$14.00.



No. 7

MANN'S NO. 7—The New No. 7 is mounted on strong iron stand, and has patent automatic governing spring feed. Large, open-hinged cylinder

giving instant access to all working parts; has six knives, gear guard, anti-clog device, heavy balance wheel. Price, \$15.50.

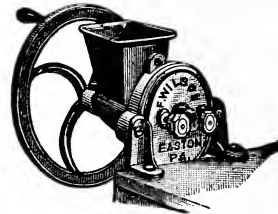
MANN'S NO. 7½—Adapted to run either by hand or by power, without any change. The particular advantage of the No. 7½ is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. Price, \$21.50.

JOHNSON'S GRIT MACHINE

The Johnson Grit Machine, easiest and best machine on the market; has compound leverage, and is very powerful. Will break rock, limestone, crockery, glass and shell. Price, \$4.25.



The Wilson Dry Bone Mill



No. 1 is a practical mill, grinding all kinds of shells, crockery, grit, burnt or dry bone feed, etc. Instantly adjusted to grind coarse or fine. Weighs 33 pounds. Diameter of hand wheel, 20 inches. Price, \$5.00.

Black Hawk Mill

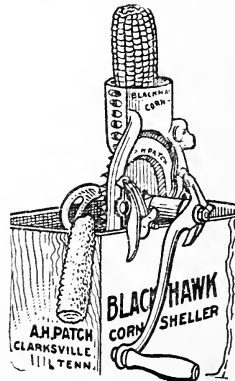


WITH A BLACK HAWK MILL in the house you crack the corn and grind any kind of grain to whatever degree of fineness you desire or which ever will best suit the use or condition of your chickens. Its wide range of usefulness, its durability and small cost will appeal to the family in town with a small flock in the back yard, and it has a large enough capacity to meet the needs of those in the country who keep poultry on a big scale. Weight, 16 lbs. Price, \$3.00.

BLACK HAWK CORN SHELLER

A Sheller That Shells

It can be set to shell any corn that grows. Made with ball-bearings, obviating the expense of a heavy balance wheel. Easily fastened to box by thumbscrews—no bolts nor screws required—no holes to be bored. Weight, 14 lbs. Price, \$2.50.



Reliable Grain and Oat Sprouter

"New Model" Clover Cutter



Poultry needs green feed in one form or another. All experiments by individuals and agricultural colleges have found that oats sprouts are the best green feed that can be obtained for poultry.

You want the eggs when the eggs sell at the highest price. Green feed makes your hens lay.

The **Reliable Grain and Oat Sprouter** has an automatic sprinkler, which furnishes moisture.

Has a Moisture Receptacle, which catches the surplus drip.

Has circulation of warm air which passes all around and over each tray.

Has a regular Oil Heater to furnish sufficient warm air in coldest weather.

Is made of Galvanized Iron with large glass front. Three trays will furnish sprouts for 50 to 75 fowls. **Price, \$10.00.**

Twelve trays will furnish sprouts for 200 to 300 fowls. **Price, \$25.00.**

Banner Root Cutter No. 7

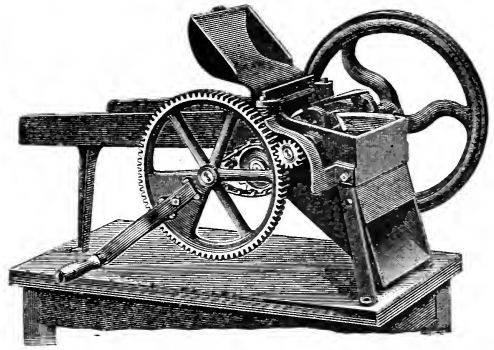


These excellent machines are so low in price that every farmer, stock raiser or poultry man should have one, as roots are the cheapest green feed for stock and poultry.

The Banner is substantially made of first class material, cuts fast, is easy running, leaving the food in fine ribbon-like strips, making choking impossible.

Weight, 50 pounds, \$5.50.

No. 28, a larger cutter with pulley for attaching power; can also be run by hand. Weight, 150 pounds, \$21.50.

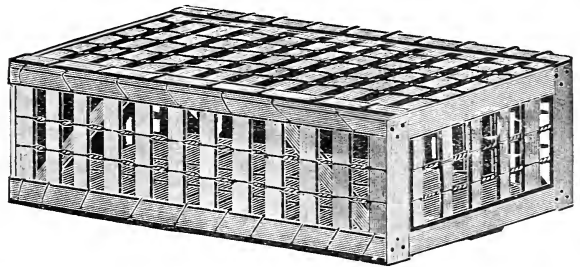


The "New Model" Clover Cutter is designed for cutting either green or dry, such growths as clover, alfalfa, vegetable tops, etc. These growths are the cheapest feed that can be secured.

The "New Model" is made only of iron and steel, from entirely new patterns. It is a strong feeder, has large capacity, runs unusually easy and will do perfect work indefinitely. Has removable steel knives and all adjustable steel knives.

Price, with four 7-inch knives.....\$10.50
Price, with extended shaft and pulley for power.....13.00

SITES' VENTILATED COOP



These latest improved coops are far superior to any heretofore made, having substantial frame ends and thoroughly braced which adds additional strength, durability, firmness and prevents swaying or sagging.

The door on top of Coop is securely held in place by a steel spring which forms a hinge for the door. It cannot become detached from the Coop and is always in place.

Standard size, 3 feet long, 2 feet wide and 1 foot high, \$2.00.

Special size, 3 feet 8 inches long, 2 feet 3 inches wide and 1 foot high, \$2.25.

Inland Shipping Coops

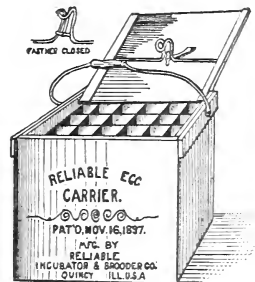
All wood, neat, very light, but strong. Poultry raisers selling poultry at fancy prices should always use these coops.

No. 1—10x18x18, 30c;	1/2 doz. \$1.50	Doz. \$2.75
No. 2—12x24x20, 40c;	1/2 doz. \$2.00	3.75
No. 3—20x24x20, 50c;	1/2 doz. \$2.50	4.50

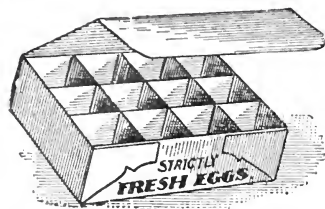
Reliable Egg Carrier

Nicely painted; equipped with the very best fillers. Patented top and sling handle. Holds 12 dozen. Weight 8 1/2 lbs.

Each, 75c.



Our business is conducted on a cash basis. Write us for special prices on large lots stating quantity wanted.

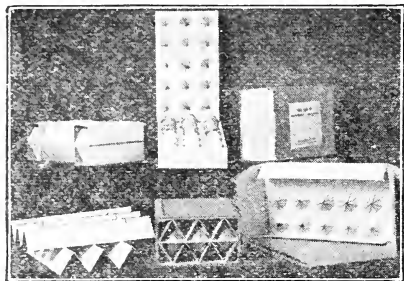


Egg Boxes

Paper—Intended for use in delivering eggs to private families. If you have a select egg trade you should use this box.

Square doz., 15c; package of 125, \$1.25; 500, \$4.50; 1000, \$8.50. Weight of 125, 15 lbs.

Long, doz., 20c; package of 125, \$1.50; 500, \$5.00; 1000, \$9.50. Weight of 125, 15 lbs.



DIAMOND

The Diamond Egg Carrier is something entirely new and in a class by itself. The construction is simplicity itself. The eggs do not come in contact with the outer box having a cushion on all sides and when wrapped in tissue paper, which always accompanies each package, there is absolutely no jar,, thus insuring safe transportation to a customer.

Made in 15, 30 and 25-egg sizes. For 50, 75 and 100 eggs use 2, 3 or 4 of the 25-egg size. With each package and enclosed therein are full directions for setting up gummed address labels, tissue paper with which to wrap the eggs and gummed paper with which to seal the box.

Price, 15-egg size, 15c each, 6 for \$0.80; doz....\$1.50

Price, 25-egg size, 20c each, 6 for 1.10; doz.... 2.00

Price, 30-egg size, 25c each, 6 for 1.35; doz.... 2.50

Price, 12-egg size, duck, 15c each, 6 for \$0.80; doz..... 1.50

Price, 12-egg size, turkey, 15c each, 6 for ..80; doz..... 1.50

Price, 9-egg size, goose, 15c each, 6 for ..80 doz..... 1.50

Parcel Post egg boxes, 15c each, 6 for 75c, doz. \$1.25. Capacity, 12 eggs.

Mailing weight of all egg boxes, 2 lbs. each; add postage to prices quoted.

ANDERSON

Made of heavy corrugated paper. These boxes are light, but very strong, being firmly braced, and will stand the weight of several hundred pounds without crushing.

30-egg size, 25c each, 6 for \$1.25; doz.....\$2.25

50-egg size, 35c each, 6 for 2.00; doz..... 3.50

Egg Cases

30-dozen case, with pasteboard fillers.....\$0.40

Pasteboard fillers for 30-dozen case..... .20

Pasteboard fillers, per case (for 12 30-dozen cases) 1.80

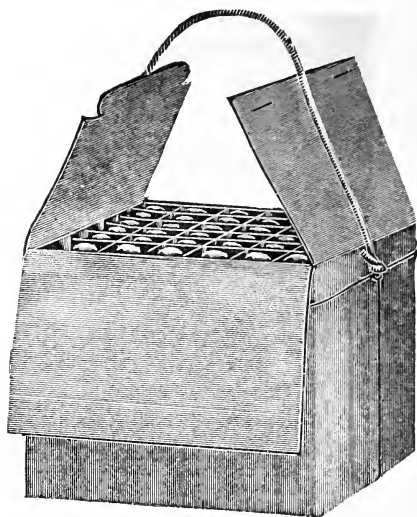
Clover Leaf Chick Feed is used and recommended by more successful Poultry men than any other brand of chick feed.

Clover Leaf Egg Producer contains the essentials necessary to the highest production of eggs.

Clover Leaf Brand of poultry feeds do not vary in quality; always uniform. always dependable.

Clover Leaf Chick Feed is our own manufacture and is composed of pure, clean ingredients in correct proportions.

The Defiance Egg Carrier



Holds 12 dozen eggs. It consists of one piece of heavy cardboard, and when set up ready for use is 12 inches long, 12 inches wide and 9 1/2 inches high, weight, including fillers and division boards 6 lbs. Each, 35c.

Shipping Boxes for Day-Old Chicks

These shipping boxes are well made of high-test corrugated paper, which is very strong and durable. The construction of these boxes is such as to afford the greatest strength and stiffness, without unnecessary bulk of weight.

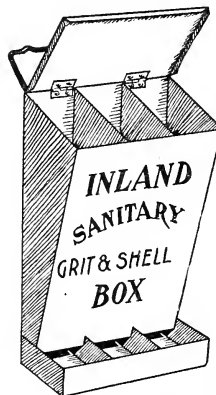
25-Chick size, 20c each; 1/2 doz. \$1.00; doz.....\$1.75

50-Chick size, 30c each; 1/2 doz. 1.50; doz..... 2.50

Weight, per dozen boxes: 25-chick size, 7 lbs.

Weight, per dozen boxes: 50-chick size, 15 lbs.

Inland Feed and Shell Box



The Inland Sanitary Feed and Shell Boxes work a material saving in grit, shell, bone, charcoal or poultry feeds. They are thoroughly practical, self-feeding, made of heavy galvanized iron. They are provided with a cover or lid, which protects the contents, and being placed at an angle furnishes a slanting top, preventing the fowls from roosting on the top of the box. They are also provided with a strong handle by which it may be hung to the wall of the poultry building. Price, two compartment, 65c; three compartment, 75c; weight 3 lbs. Price, four compartments, 85c; weight 4 lbs.

Petty's Poultry Punch



Latest, most convenient Poultry Punch; will not clog. Thoroughly practical. Postpaid, 25c.

Stearn's Poultry Punch



This little tool is for marking poultry by punching through the web between the toes. It is light and handy to carry in the pocket. Nickel plated. 5c, postpaid.

Nest Eggs

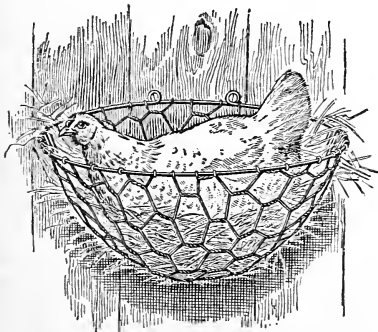


Medicated Nest Eggs should be used the year around.

Directions for Use—Don't expect one egg to rid your poultry and poultry house of lice. To realize the best results keep an egg in each nest for laying hens; in each coop for brooding hens and chicks, and enough to change about under setting hens. Weight, per doz., 2 lbs. Each, 5c; doz., 50c.

Lime Nest Eggs—The popularity of the Lime Nest Egg has spread across the country like a great storm wave sweeping the continent. Not only the poultry fancier, but the every day farmer appreciates its merits and superiority over the ordinary porcelain nest eggs. They look more like a real egg. The porcelain egg becomes so cold in winter that a hen will not sit upon it but scratch it out of the nest. Lime is a non-conductor of heat and cold and does not become near so cold. It is never scratched out of a nest. Weight, 2 lbs. per doz. 3 for 10c; doz., 30c.

Wire Nests



These nests are strongly made from heavy japanned steel wire. They are intended to be fastened to the wall with screws or screw hooks. There is no room on them for lodgement of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes. Each, 20c; per dozen, \$1.50. Weight, each, 12 oz.

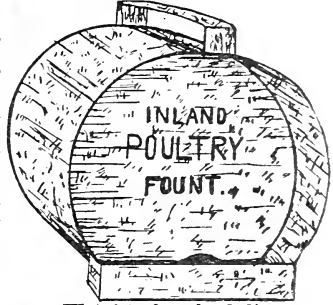
Drinking Fountains



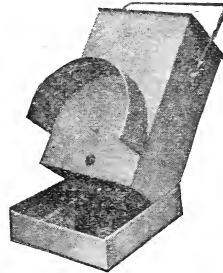
The Galvanized Iron Drinking Fountains embody every good feature of a up-to-date drinking fountain, and are believed to be the best in use. A fountain that can be easily and readily cleaned is desirable and necessary. These fountains are easily filled, easily cleaned. Qt., 25c; postpaid, 30c; Gallons, 50c; postpaid, 60c.

Inland Poultry Fountain—The back is flattened so that it can be hung on the wall or against an upright board at any height. As the bottom is also flat, it can be set upon the ground or on a raised board. Price, 1 gal., 65c; postpaid, 75c; 2 gal., 75c, postpaid, 85c.

Weight, 1 gal., 2 lbs.



Weight, 2 gal., 3 lbs.



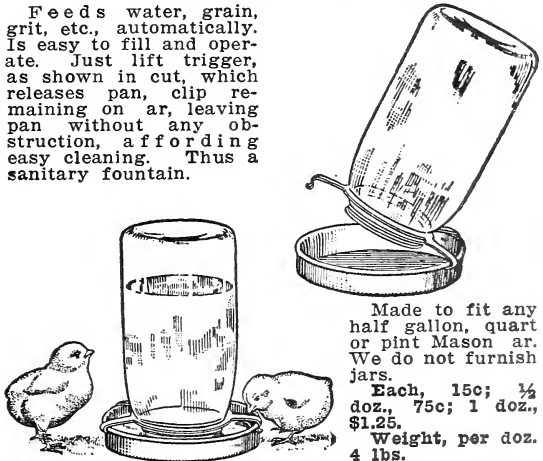
Drop Bottom Founts

28-gauge galvanized steel. Easiest thing in the world to open and clean. Clasp by which the bottom is fastened fits over the small hole under the hood, preventing sloping of water when the fount is handled. Solid brass hinge rod—no rust.

Gal., 75c; 2 gal., 90c; postpaid, 10c additional.

Automatic Fountain and Feeder

Feeds water, grain, grit, etc., automatically. Is easy to fill and operate. Just lift trigger, as shown in cut, which releases pan, clip remaining on jar, leaving pan without any obstruction, affording easy cleaning. Thus a sanitary fountain.



Made to fit any half gallon, quart or pint Mason jar. We do not furnish jars.

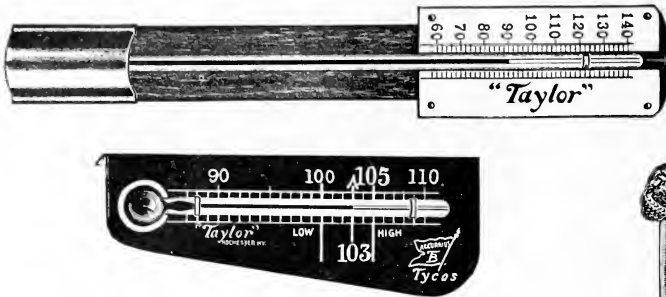
Each, 15c; ½ doz., 75c; 1 doz., \$1.25. Weight, per doz. 4 lbs.

CLOVER LEAF EGG PRODUCER

Clover Leaf Egg Producer is the result of repeated experiments, and the mixture is approved by our leading poultry men.

High-Grade Thermometers

"Tycos" Incubator Hygrometer



The best incubators and brooders manufactured are worthless unless the thermometers therein are correct. The thermometers here listed are guaranteed by the manufacturers to be thoroughly and expertly tested before they are offered to the public. **Incubator Thermometers, 75c; postpaid, 80c. Brooder Thermometers, 60c; postpaid, 65c.**

"Tycos" Certified Incubator Thermometers

With scale etched on the glass tube, so that should the tube from any cause work loose on the mounting, the efficiency of the thermometer would not in any manner be diminished. Made in mercury tube only. **Each, \$1.00; postpaid, \$1.05.**

Wire hangers for Incubator Thermometers, 15c extra.

Champion Legg Band



The oldest and most popular band on the market. This band is made in one piece in two sizes, adjustable to fit any fowl. They will stay where you put them. Held by double lock, it is impossible for them to lose off. Made of aluminum in two sizes, large size for Asiatic class and turkeys; small size for Plymouth Rocks and all smaller breeds. **Postpaid, 12, 15c; 25, 30c; 50, 50c; 100, 80c.**

Aluminum Pigeon Bands

Pigeon bands are seamless and open, with numbers. **12, 20c; 25, 35c; 50, 60c; 100, \$1.00, postpaid.**

The "Triumph" Caponizing Set



There is no doubt in the minds of up-to-date poultrymen as to the advantages of caponizing. The operation is simple, with a "Triumph Caponizing Set." Capons sell on the market at a higher price than any other chickens. Now is the time to get into the caponizing business, and the first thing to start right is to buy a "Triumph Caponizing Set." No more efficient, simple or more easily operated set is being offered the craft today than the Triumph.

In plush-lined, cloth-covered box, \$3.00; postpaid \$3.10
In polished hardwood box, \$2.75; postpaid..... 2.85
In japanned wood box, \$2.50; postpaid..... 2.60

Poultry Netting

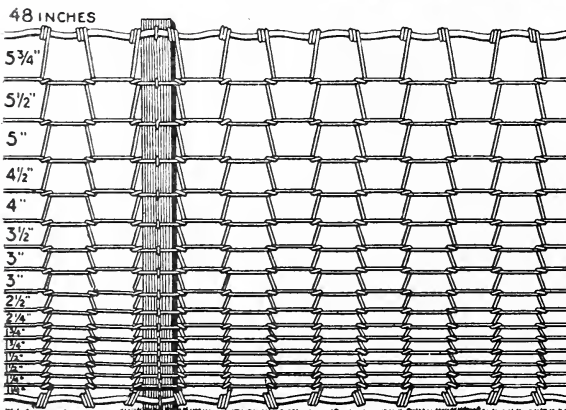
SPECIAL POULTRY AND STOCK FENCE

Made in 48 and 60-Inch Heights

To meet the demand for a fence suited for poultry and stock this special fencing has been put on the market, and it is particularly adapted for such general purposes. It is scientifically constructed from the best material, heavily and thoroughly galvanized.

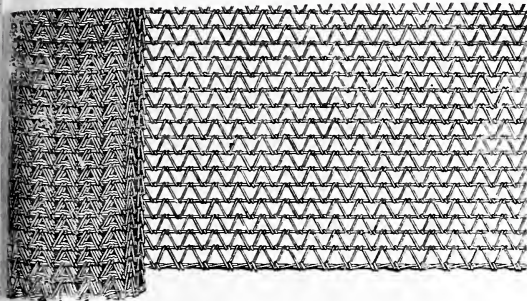
The illustration shows that the stays are in one piece running continuously from bottom to top, and that they are interwoven, so as to render it impossible to slip or spread the wires in any way. This makes the best as well as the strongest combination possible to be produced from the same amount of wire.

Price, 48-inch, 20 rods to the roll.....\$10.00
Price, 60-inch, 20 rods to the roll..... 11.00



SPECIAL POULTRY AND STOCK FENCE

U. S.



The U. S. Poultry Wire combines strength, durability and neatness of appearance. It is flexible, and readily adjusts itself to uneven surfaces without buckling. Stretches in firm, straight lines without rail supports, requires few posts and no top or bottom rail is required to keep the fence from sagging or narrowing together between the posts. Bear in mind that the bars in the "U. S." fencing are only two inches apart. Put up in rolls containing 150 lineal feet.

PRICES
TWO-INCH MESH

2 inches high, per roll.....	\$0.90
4 inches high, per roll.....	1.85
6 inches high, per roll.....	2.80
8 inches high, per roll.....	3.60
10 inches high, per roll.....	4.40
2 inches high, per roll.....	5.25

Five roll lots, either straight or assorted, 10% less.

ONE-INCH MESH—150 FEET

8 inches high, per roll.....	\$3.00
4 inches high, per roll.....	4.00
10 inches high, per roll.....	4.75
6 inches high, per roll.....	5.50

M. M. S.



Pat. July 21, 1896.

[Trade Mark.]

Pat. July 6, 1897.

The M. M. S. Wire being only one inch apart at the bottom requires no board to prevent little chicks passing through. Also saves buying expensive one-inch mesh wire.

60 in. high, 165 ft. long, per roll.....	\$4.75
5 roll lots	4.50
72 in. high, 165 ft. long, per roll.....	5.50
5 roll lots	5.25

Roofing

Roofing is manufactured from a high-grade wool felt which is thoroughly saturated and coated with asphalt. It is fire-resisting, water proof and weather proof, and will last for a great many years. It is easy and quick to lay; can be used with equal success on a temporary shed, drykirk, mill or factory roof, modern office building of wherever a good material is required for a flat roof. Nails and cement are enclosed in each roll; made in different qualities.

1-ply, 34 lbs., per roll.....	\$2.00
5 rolls	9.50
2-ply, 44 lbs., per roll.....	2.50
5 rolls	12.00
3-ply, 54 lbs., per roll.....	3.25
5 rolls	15.50
1-ply, per roll	1.75
5 rolls	8.50
2-ply, per roll	2.25
5 rolls	10.75
3-ply, per roll	2.75
5 rolls	13.00

One roll covers 100 square feet.

Poultry Feeds

In the days gone by it used to be considered that anything was good enough to be fed to poultry. The poultry business of today is being rapidly conducted on a truly scientific basis. There are three great essentials to success in the poultry business. **Stock, Care, Feed.** The success of the poultry man will depend upon the care and attention given to these three points. We are not supplying **Stock**, and cannot give **care**, but we can and are supplying **feed**.

The feed of our own manufacture are put up under our Clover Leaf Brand, each bag bearing our name and a large green four leaved clover. These are not put up haphazard, but are always put up under the same formula regardless of the varying prices of the different grains and ingredients necessary to make up the different mixtures.

Advantages of using the **Clover Leaf Brand, Uniformity, Dependability, Purity, Cleanliness, Results.**

Clover Leaf Egg Producer

Clover Leaf Egg Producer—This has been prepared with a great deal of care, and only after consultations with the most prominent and successful poultry men. We have been making and selling this mixture for some time, but did not put this out under our Clover Leaf Brand until we were thoroughly convinced that it was all we thought it to be, as we must have positive proof that an article is the best that can be produced before it is adopted into the family of the Clover Leaf Brand. We believe this to be thoroughly reliable and cheerfully recommend it to poultrymen. 80-lb. bag, \$2.00.

Clover Leaf Chick Feed



The experience of poultry raisers is the same the world over, and that is that it is easier to hatch young chicks than it is to raise them. By using **Clover Leaf Chick Feed** you can give the chicks just what nature intended they should have, a food composed of grains (cracked), small seeds, grit, bone, dried sweet meat (to take the place of insects and bugs), charcoal, etc., etc., mixed in the right proportion to produce a quick and profitable growth without loss. 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.25.

Clover Leaf Forcing Feed, as its name implies, is a special food intended for properly maturing young chicks after they are ready to be weaned from **Chick Feed**. When the chicks are from six to eight weeks old they are able to eat larger particles of grain than are found in our **Chick Feed**.

Our **Forcing Feed** contains a variety of grain in sizes and quantities exactly suited to the purpose for which it is intended. 50 lbs., \$1.75; 100 lbs., \$3.25.



Clover Leaf Scratch Feed

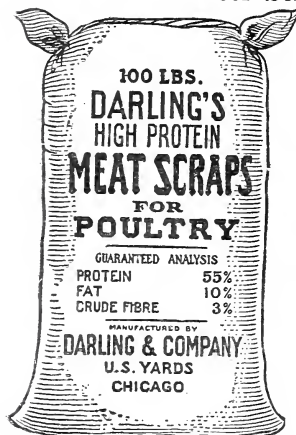
This is a balanced ration, composed of the choicest grains, and other ingredients in just the correct proportions that several years of experience has demonstrated is right. Every practical poultry man will readily concede the great advantage of feeding such a mixture. **Price, per 100 lbs., \$2.75.**

Clover Leaf Balanced Ration

This is a complete food ground and ready to mix with water. It contains all the ingredients necessary to promote quick growth, to produce eggs and to keep the birds in a good condition. We have thoroughly studied the subject of feed for fowls and know this mash will give you the desired results. Clover Leaf Balanced Ration costs only a little more than wheat or corn and is of twice the value. **30-lbs. bag, \$1.90.**



Beef Scraps



The object in buying Beef Scraps or Meat Meal is to obtain the largest amount of digestible protein possible. Beef Scraps contain from 55 to 65 per cent of protein, 10 to 12 per cent of fat and less than 5 per cent of ash.

Darling's, 100 lbs., \$4.00.

Armour's 100 lbs., \$3.75.

Darling's Meat Crisps—Packed in 3-lb. cartons, specially prepared, and of especially high grade carrying 75 per cent protein. **30c; postpaid, 40c.**

Armour's Meat Meal—Contains from 50 to 65 per cent of protein, 10 to 12 per cent of fat and less than 5 per cent of ash. Pure, clean, sweet and wholesome. Will keep indefinitely if stored in a dry place. **100 pounds, \$3.75.**

CLOVER LEAF FERTILIZER

Has Proved Its Worth
by Producing Results
A TRIAL WILL CONVINCE

Blood Meal

One great reason why hens do not lay in winter is because they are not supplied the proper elements to produce the yolk of an egg. This can be remedied by the use of Dried Blood or Beef Scraps. Blood is the highest concentrated form of animal food and prepared so as to include all the elements of the so-called Red Albumen. Use one tablespoonful to six hens once a day. **Standard, 100 lbs., \$3.00; Armour's Granulated, 100 lbs., \$5.00.**

Alfalfa Meal

The value of some green feed for fowls can hardly be overlooked. For a winter feed alfalfa is one of the best for this purpose. It contains more protein, lime, and mineral salts in soluble and digestive form than clover, and fowls relish it in either a green or dry state. For producing eggs in winter it has no equal. **100 lbs., \$1.50.**

Alfalfa Leaves and Blossoms—This is much superior to the ordinary Alfalfa Meal, as it does not contain the stocks, only the leaves and blossoms. **25 lbs., 50c; 50 lbs., \$1.00.**

Granite Crystal Grit

The sharpest and hardest grit known. Free from dust, is sharp, hard and clean. Rich in iron, silica, aluminum and mica. Each crystal has sharp edges, which cut and grind, and gring and cut until the last minute particle is worn away. Thus it will last two or three times longer than any other grit. In ordering state whether you want chick, medium or poultry size. **100 lbs., \$1.00.**



Granulated Charcoal

Our Granulated Charcoal is not ordinary commercial charcoal, but is especially prepared for poultry. It aids digestion, purifies the blood, keeps the crops sweet, regulates the bowels and promotes the general good health of the chicks and adult fowls. Fine granulated, for all mash rations and for small chicks and a coarser granulated for adult fowls. **50-lb. sacks, \$1.50; 100-lb., \$3.00.**

SHELL

The feeding of shells to poultry prevent soft shelled eggs, makes the shells strong, and eggs larger and heavier.

Western Shell, per bag.....\$1.00
Eastern Oyster Shell, per bag.....1.40
Fancy Eastern Oyster Shell, per bag.....1.50

Granulated Bone

Many poultrymen prefer granulated bone to fresh or green bone. Fresh or green bone contains 53 per cent of moisture and 12 per cent of grease, so that when a poultry man buys fresh bones he pays for 65 pounds of useless materials in every 100 pounds he buys. Granulated Bone is made from fresh bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. **100 lbs., \$2.75.**

NEW CABBAGE

SUMMER BALLHEAD
COPENHAGEN MARKET
DANISH ROUNDHEAD
DANISH BALLHEAD

Stock and Poultry Remedies

"GOLD COIN" STOCK AND POULTRY TONICS



Horse Tonic hardens the muscles. It aids digestion. It purifies the blood and sleekens the coat. It clears the water, regulates the bowels, cures and prevents disease.

Price, 25c, 50c and \$1.00 packages; 12½-lb. pails, \$2.00; 25-lb. pails, \$3.50. Mailing weight, 2-lbs., 4 lbs., 7 lbs., 17 lbs., 30 lbs.

HOG TONIC WORM EXPELLER—Four doses for 1 cent. Gold Coin Hog Tonic is a medicinal tonic made from the Roots, Barks, Seeds and Herbs required by Nature to keep the system of Hogs in healthy condition, for overcoming and preventing diseases and worms in swine, and to aid digestion and quick fattening. A splendid stimulant for the internal treatment of Hog cholera. 50c pkgs; 25 lb. pail \$3.50. Mailing weight, 4 lbs., 30 lbs.

CATTLE TONIC—Four doses for 1 cent. Gold Coin Cattle Tonic is a Cattle Tonic for loss of appetite; to increase flow of milk; to cure Scours; to aid in fattening and finishing of steers; to prevent and cure Scour in calves. 25c and 50c packages; 15 lb. pail, \$3.50; mailing weight, 2 lbs., 4 lbs., 30 lbs.



POULTRY TONIC—It will prevent poultry diseases, and saves feed. It is not what your poultry eats, but what they digest and turn into flesh and production of eggs that makes money for you.

25c, 50c and \$1.00 packages, 12½ lb. pails, \$2.00; 25 lb. pails, \$3.50. Mailing weights, 2 lbs., 4 lbs., 7 lbs., 17 lbs., 30 lbs.

"Gold Coin" Remedies

Please note that some of the following remedies are not marked postpaid, and have not any mailing weight given. This means that these goods cannot be sent by mail.

FOOT REMEDY—Quickly cures sore feet, lameness from corns, sand cracks, quarter cracks, contracted heels, etc. Can, 50c.

LOUSE POWDER—Kills lice, ticks, mites on poultry, pigeons, dogs, cats, stock. Can, 25c; mailing weight, 2 lbs.

LICE KILLER—Kills lice in hen houses, hog pens stables, etc. Quarts, 35c; half gallon, 60c; one gallon, \$1.00.

HARNESS OIL—For oiling harness or preserving any kind of leather. Can, 25c.

HARNESS SOAP—For cleaning and polishing harness, buggy tops. Can, 25c. Mailing weight, 2 lbs.

WORM POWDER—Kills all worms and bots in horses, hogs, sheep, dogs, etc. Package, 50c. Mailing weight, 2 lbs.

HEALING OIL—For barb wire cuts, nail injuries, burns, flesh wounds or cuts. Bottle, 25c and 50c.

COLIC CURE—Cures wind colic, bloat, spasmodic colic, stoppage of urine, etc. Bottle, 50c.

COLD AND DISTEMPER CURE—A specific for distemper in young or old horses. Package, 50c. Mailing weight, 2 lbs.

SPAVIN CURE—For curable spavins. Quickly reduces all soft swellings as "bog" spavin, blood spavin, swollen joints, inflammation, etc. Bottle, \$1.50.

CONDITION POWDER—For sick animals. A high class medicine for fevers and all acute diseases. Package, 50c. Mailing weight, 2 lbs.

GALL CURE—For sores on neck, shoulders and back from rubbing of harness or saddles. All cuts or wounds on horses. Can, 25c and 50c. Mailing weight, 1 lb.

GERM KILLER—Destroys all disease germs, cleanses and purifies filthy places. Can, 25c and 50c.

HEAVE CURE—It is the best and cheapest heave cure. Package, 50c. Mailing weight, 2 lbs.

LUMP JAW—Cures the disease known as lumpy jaw, which is due to a micro-organism. \$2.00. Mailing weight, 1 lb.

Fly Bliester, \$2.00; postpaid, \$2.05.

Dehorner, \$1.50; postpaid, \$1.55.

Hoof Ointment, \$1.00; mailing weight, 2 lbs.

Rapid Cleaner Soap, 25c; mailing weight, 2 lbs.

COMPOUND LINIMENT—Rub the affected parts thoroughly with the liniment. Bandage only when a blister is desired. Bottle, 50c.

COUGH AND LUNG SYRUP—This is a cough syrup for horses, cattle, sheep or hogs. It is important to attend to all lung diseases promptly. Bottle, 75c and \$3.50.

SHEEP DIP—This is a new scientific "dip," founded on scientific principles. It is cheaper, stronger and safer than any other "dip." It goes further. Gallon, \$1.50.

CONKEY'S REMEDIES

Every poultry raiser should study the subject of Poultry Diseases. It is very important to know the common symptoms so as to understand what the trouble is and what to do for it. It is also important to understand the cause for each disease, and thus know how to prevent trouble in the first place.

We handle the complete line of Conkey's Poultry Remedies.



ROUP REMEDY—Remember that roup is highly contagious. Neglect to treat promptly endangers your whole flock. But even in neglected stages don't despair, but use Conkey's Roup Remedy according to the special directions for worse cases. 50c and \$1.00; weight, 6 and 12 oz; postpaid 55c and \$1.05.

CONKEY'S ROUP PILLS—For the individual treatment of birds and for use to the Show room. Price, 25c, 50c and \$1.00; postpaid, 30c, 55c and \$1.05.

CONKEY'S CANKER SPECIAL—A new remedy that effectively reduces the Cankerous growth and brings the bird back to normal without a blemish. Also fine for treating colds, etc. Price, 50c; postpaid, 55c.

BRONCHITIS REMEDY—Bronchitis is different from roup, and needs a special treatment which will reach the bronchial tubes. 50c; postpaid 55c; weight, 8 oz.

CHOLERA REMEDY—For indigestion, bowel trouble and all so-called "cholera" ailments of chicks and grown fowls. 50c; postpaid, 55c; weight, 8 oz.

GAPE REMEDY—Gapes is a troublesome disease, tedious to cure, but this remedy is highly successful. 50c; weight, 14 oz.; postpaid, 55c.

WHITE DIARRHOEA REMEDY is a special preventive and remedy for this dread scourge of incubator chicks. Price, 50c; weight, 4 oz.; postpaid, 55c.

HEAD LICE OINTMENT—If a chick droops always look for lice, on head, neck or under wing. 10c, 25c; weight, 2 and 4 oz.; postpaid, 15c, 30c.

CHICKEN-POX OR SORE-HEAD REMEDY—Sore-head is getting to be one of the most serious troubles. Treat is promptly and save your flock. 50c; weight, 10 oz.; postpaid, 55c.

LIMBER NECK REMEDY—You will not lose a bird from limber neck if you give this medicine promptly. 50c; weight, 10 oz.; postpaid, 55c.

SCALY LEG REMEDY—Keeps the feet in nice shape. 25c; weight, 8 oz.; postpaid, 30c.

POULTRY LAXATIVE—Purgative or laxative, according to dose. 25c; postpaid, 30c.

POULTRY TONIC—For general run-down condition; is a fine general tonic during moulting season or after recovery from any disease. 25c; weight, 10 oz.; postpaid, 30c.

LICE POWDER—Conkey's Lice Powder is excellent for ridding fowls of body lice, as it quickly kills these pests when sifted into the feathers of the birds, and it does not injure the fowls or even taint eggs in the nest. 25c, 50c and \$1.00; mailing weight, 2 lbs., 4 lbs., 8 lbs.

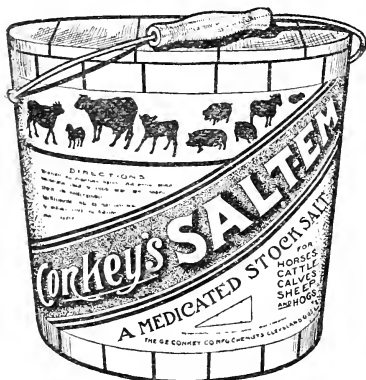
LICE LIQUID FOR MITES—Spraying walls and painting roosts, cracks and crevices is the only way to rid houses of mites. Conkey's Lice Liquid is a highly satisfactory lice spray. Gal., \$1.00; 2 quarts, 60c; quart, 35c.

LICE-FIX—Another and effective way of going after and getting the body louse. Three or four applications a year are sufficient. Price 50c; postpaid, 55c.

CONKEY'S STOCK REMEDIES

SALT-EM

Conkey's Medicated Salt



What It Will Do: Clean the blood, increase appetite, ward off disease, improve digestion, increase circulation, save waste of feed, keep the system open, rid your chicks of worms, tone up liver and kidneys, make thrifty gains from feed. 100 pound, \$6.00; 40 pound, \$2.75; 20 pound, \$1.50; 10 pound, 90c; mailing weight, 10 lb. pail, 12 lb., 20 lb., 25 lb., 40 lb. pail, 47 lb.

STOCK TONIC—It keeps up appetite, insures full digestion of the ration, prevents waste of feed, that is, brings you the most possible return for every pound of feed. Not a food itself, but all medicine. Money back. 25c, 50c, \$1.00, 12 lbs. (pail), \$2.00, 25 lbs. (pail), \$3.50; mailing weight, 2 lbs., 4 lbs., 8 lbs., 17 lbs., 32 lbs.

WORM REMEDY—A prompt and powerful remedy for tsock badly infested. 50c; postpaid, 55c.

HORSE REMEDY—A stimulating medicine for debilitated and exhausted conditions. \$1.00.



Laying Tonic fills the egg basket in spite of weather. It is not a food, but a tonic to be mixed with the regular feed during seasons when fowls get sluggish and want to loaf instead of lay. 25c, 50c, \$1.00; pails, \$1.60 and \$3.00; express extra; mailing weights, 2 lbs., 4 lbs., 8 lbs., 17 lbs., 32 lbs.

GALL SALVE—A healing ointment for sores, cuts, harness and saddle galls, chafes, etc. 25c and 50c; postpaid, 30c, 50c.

FLY KNOCKER—All the time your stock are pestered by flies you are losing your profits. Use it on your horses and cattle night and morning. Does not injure the hide, odor will not taint milk. Keeps flies off, kills every one it hits, prevents lice and grub. Qt., 50c; 2 qts., 75c; gal., \$1.25; 5 gal., cans, \$5.50.

PAIN LOTION—For soreness, throbbing pains, inflammation, cuts, wounds, burns. 50c.

HOOF REMEDY—Keeps your horse's hoofs in nice shape. Pt., 50c; qt., 75c; 1/2 gal., \$1.25; 1 gal., \$2.00.

ABSORBANT—Cures lameness, removes blemishes. \$1.00.

HEALING POWDER—A wonderful gall cure. For chafes, sores, etc. 25c and 50c; postpaid, 30c, 55c.

HEAVE REMEDY—Corrects digestive disturbance as well as nervous derangement. \$1.00; postpaid \$1.05.

COLIC REMEDY—A lifesaver and should be on hand for emergency. 50c and \$1.00.

FISTULA AND POLL EVIL REMEDY—Effective and very humane. \$2.00.

DISTEMPER AND COUGH REMEDY—For all cases of cough, cold, chill and fever, eqizootic, distemper or strangles, pink eye, etc. 50c and \$1.00 mailing weight, ...

BAG OINTMENT—A penetrating, softening application which soothes quickly. A remedy for many bag troubles. 25c and 50c; postpaid, 30c and 55c.

NOX-ICIDE—Is an all-round preventive, as it keeps the quarters sanitary and kills the germs. Use it as a dip, disinfectant, spray or as a lice liquid \$1.50 gallon; 2 qts., 90c; qt., 60c; pint, 35c.

Healing Salve, 25c; postpaid, 30c.

Eye Remedy, 50c; postpaid, 55c.

Fever Remedy, \$1.00; postpaid, \$1.05.

SULPHUR CANDLES—For fumigation. 10c; postpaid, 15c.

Tobacco Dust

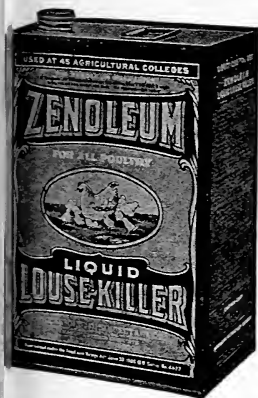
For use in dust baths or nests. A cheap and effective exterminator of lice. Per lb., 10c; postpaid 20c.

Poultry Pepper Compound

This is a splendid tonic at all times. A small amount sprinkled in with a hot mash will stimulate the circulation and increase egg production. Pkg 25c; 5 lbs., \$1.00.



ZENOLEUM



One gallon of Zenoleum makes 100 gallons of positive disinfectant. Kills vermin, cures skin trouble. Invaluable as a remedy for diseases of poultry and all live stock. Kills lice and cures mange. Disinfects incubators. 8 oz. can, 25c; quart, 50c; half gallon, 90c; gallon, \$1.50.

AVENARIUS CARBOLINEUM

Avenarius Carbolineum is without doubt the most effective exterminator of mites and lice on poultry, poultry houses, lice on horses, cattle and hogs, ticks on sheep, fleas on cats and dogs.

FOR CHICKENS—Simply paint walls, roosts, floors and roofs of the poultry houses or barns after first thoroughly cleaning them. It does not make a

particle of difference whether the interior is of wood, plaster or tar paper. One coat of Avenarius Carbolineum kills instantly all mites, bugs, lice and vermin.

FOR HORSES, CATTLE AND SHEEP—Sprinkle some on an old blanket and tie around the animal for several hours. Also paint the stalls.

FOR HOGS—Sprinkle a little Avenarius Carbolineum diluted with water on the bedding and also paint the hog pen.

Please note that some of the foregoing remedies are not marked postpaid and have not any mailing weight given. This means that these goods cannot be sent by mail.

Lice Powders

BUHACH—Per oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

PEERSIAN INSECT POWDER—Lb., 50c.

Copperas

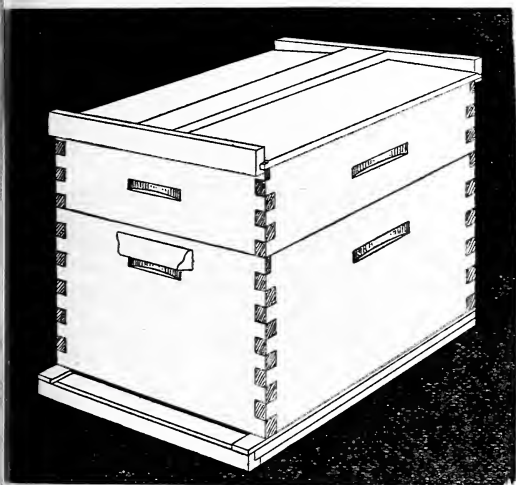
A small piece placed in drinking water is a good tonic for chickens. Lb., 10c.

Insect Powder Blowers

JUMBO—Price, 25c; postpaid, 30c.

DEFENDER—Price, 15c; postpaid, 20c.

Bee Supplies



DOVETAILED HIVES—The dovetailed hive is now the leading hive, as it contains many of the most desirable features of the various hives for the rapid handling of bees, and is one of the cheapest and best hives manufactured.

DESCRIPTION—The body is made of cedar planed on both sides, $\frac{3}{4}$ inch thick, and is fitted with metal rabbets of an improved style. Outside of body is $13\frac{1}{8}$ x 20 inches, and $9\frac{1}{2}$ inches long. The body holds eight Hoffman frames, L size, and a division board. The frames hang below the top edge of the hive, so that there is a bee space above them, but the bottoms of the frames are flush with the bottom edges of hives, the bee space being made by the projection of the sides and can be enlarged or decreased by inverting bottom board. The bottom is 14x21 inches. The cover is made with grooved cleats at each end to prevent warping. The supers are the same size as the body of hive, but only half the depth, so that when two are put together they make a full-depth body. The inside width of the body is $12\frac{1}{2}$ inches, giving room for eight frames and a division board. There are objections to using sections other than $4\frac{1}{2}$ x $4\frac{1}{2}$, as they require special sized shipping cases and special sized cartons.

DOVETAILED HIVE (COMPLETE WITH ONE SUPER)—Consists of 1 bottom board, 1 body, 1 super, 1 cover, 8 Hoffman brood frames, 1 division board, 2 wedges for super, 6 section holders, 6 slotted separators. Price, 5 K. D., \$8.75; 1 nailed, \$2.00.

DOVETAILED HIVE (BODY ONLY)—Price, 5 K. D., \$6.00; 1 only, \$1.35.

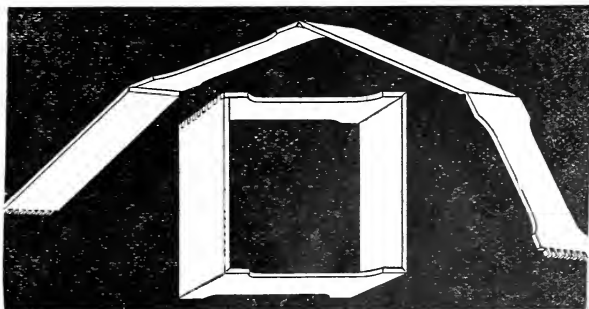
SECTION HOLDERS—Each, 3c; 100, \$2.00.

SLOTTED SEPARATORS (SAWED)—Ten for 15c; 100, \$1.00.

SUPERS—For above hives. Each, 75c; 5 in flat, \$3.25. K. D. Hives and supers sold only in lots of five or its multiply.

Section Honey Boxes

NO. 1 SECTIONS—Are made of the choicest white basswood lumber, and all are perfect in finish and free from defects. They are not all snow-white, but vary from that to light cream color. Price, per 25, 25c; 100, 85c; 500, \$3.75; 1000, \$7.00.



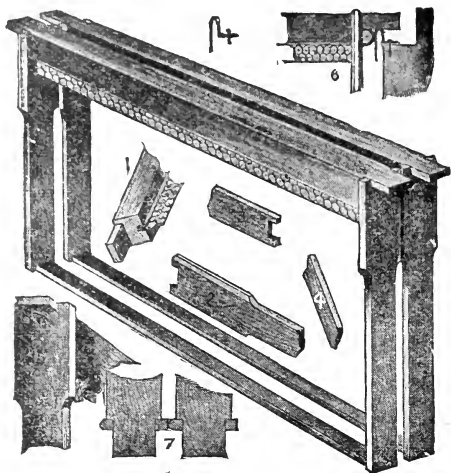
NO. 2 SECTIONS—Selected from the best grade, sell at a price less than the No. 1. Most of them are equal to No. 1 except in color; some have dark spots, saw marks, or other blemishes, which exclude them from the No. 1 grade. Price, per 25, 25c; per 100, 75c; per 500, \$3.50; per 1000, \$6.50.

Van Deusen Wax Tube Fastener



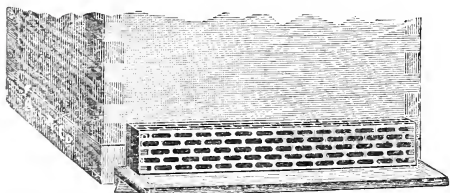
For fastening the foundation sheets to thin top-bars there is nothing better than the Van Deusen wax tube. It is simply a brass tube half an inch in diameter, six inches long and tapering. This is filled with hot wax and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. 20c; by mail, 25c.

Hoffman Brood Frames



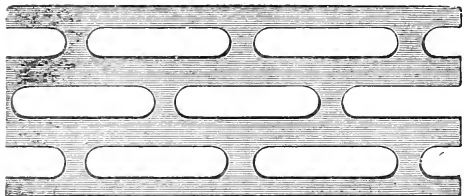
The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames. The top bar is made with a beveled strip which holds the foundation in place, perfectly straight and exactly in center to top bar. It seems to combine in itself nearly all the good features and for a hanging frame it is the best self-spacer we know of. It economizes labor in that it can be handled in groups of three or four; and any particular frame can be removed without thumbing over nearly all the other frames in the hive to get room. Price, per 8, 30c; 50, \$1.60; 100, \$3.00.

Bee Entrance Guards



These are to admit workers, and to exclude drones. After the drones are all out, fix the guards over the entrance and at night the drones can be destroyed. 20c; by mail, 25c.

Queen Excluding Zincs



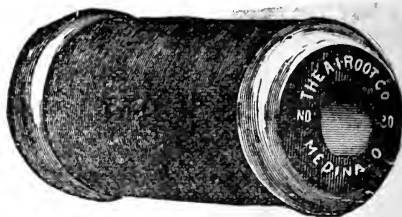
This is used between the upper and lower stories, to prevent the queen going up above. It is also used in making entrance guards, queen and drone traps, etc. 30c; by mail, 40c.

Spur Wire Imbedder



The latest spur wire imbedder is a most decided improvement over the old one. The teeth are wider and grooved in the direction of the circumference midway across front of teeth, so that the wheel will easily follow the wire. 20c; by mail, 25c.

Tinned Wire



No. 30 Tinned Wire seems to be the most suitable of any for wiring frames.

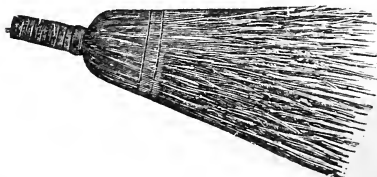
¼-lb. size Spools No. 30 Tinned Wire, each, 15c; ½ doz., 85c; doz., \$1.50.

½ lb. size Spools No. 30 Tinned Wire, each 25c; ½ doz., \$1.25; doz., \$2.25.

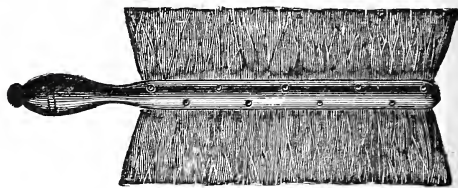
1 lb size Spools No. 30 Tinned Wire, each, 40c; ½ doz., \$2.00; doz., \$3.75.

Postpaid, 20c, 30c, 50c.

Cogshall's Bee Brush



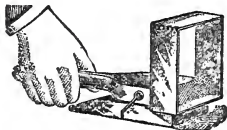
This is a sort of whisk broom especially adapted and made for brushing bees. The strands are thinned out and longer, so as to give a soft, pliable sweep to the combs. 25c; postpaid, 30c.



The Dixie Bee Brush.

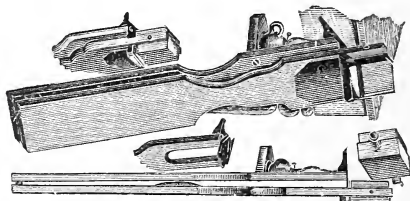
It is a double brush with a strong wood handle, put together with brass nails to avoid rust. The strands are soft and pliable to give an easy gentle sweep. 25c; postpaid 30c.

Foundation Fastener



PARKER'S—The Parker Fastener is a cheap machine for fastening starters. With a little practice it can be made to work very satisfactorily. 40c; by mail, 50c.

Daisy



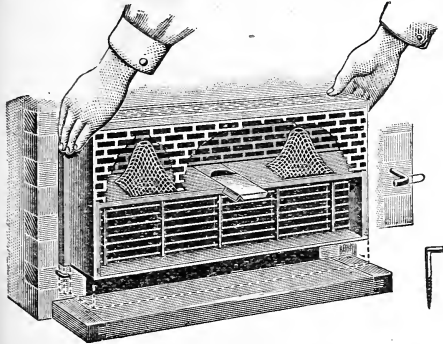
DAISY—This is the best for putting starters into sections. Nothing could be more simple or more easily operated than this machine. With this a boy or girl will put starters in about 500 sections per hour. Weight 6 lbs.; without lamp, \$1.25; with lamp \$1.50.



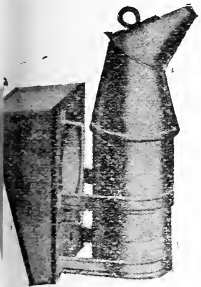
Honey Extractors

For those who want the smallest and lightest machine, as well as one moderate in price, this is the best in the market. It is a non-reversible, two-frame machine; that is, the frames must be pulled clear out of the extractor, reversed in the air, and put back into the baskets the other side to. The Novice will handle the product of fifty of more colonies in good seasons. Price, \$12.00.

Alley's Combined Drone and Queen Trap



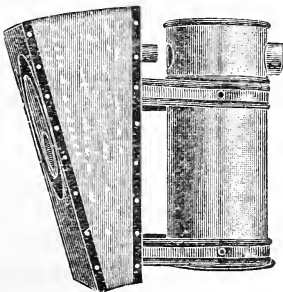
A perfect non-swarmer arrangement. Weight, 1 lb. 50c; postpaid, 55c.



Higginville

Smokers

This smoker is, as its name implies, strictly a Higginville product. It is a hot blast, and has a 3/4-inch fire box, and the nozzle is detachable to admit of filling or cleaning. It has as strong a blast as any smoker made. A bar of folded tin running parallel with a bellows protects the hand from coming in contact with the hot fire box. \$1; postpaid, \$1.10; weight, 1 1/4 lbs.

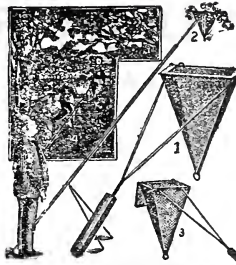


Acme.

Comb Foundation

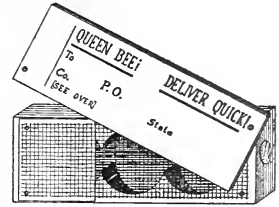
Size of Sheet	1lb.	5-lb.	10-lb.
Medium Brood, 7 1/2 x 16 1/2	\$.65	\$0.64	\$0.63
Light Brood, 7 1/2 x 16 1/2	.70	.69	.68
Thin Super, 3 3/4 x 15 1/2	.70	.69	.68
Extra Thin, Super, 3 3/4 x 15 1/2	.75	.74	.73

Not less than 1 pound mailed. We consider this a dangerous way of sending these goods.



Queen Cages

The cover, to insure prompt delivery, is printed in exact fac simile of cut. On the reverse side are printed directions for introducing Queens. 5c each; postpaid, 10c.



Manum's Swarm Catcher

This swarm catcher is the best article of its kind on the market, and it will be found a valuable addition to the appliances of the apiary. \$1.50.

Veils

A great necessity and very cheap; cotton. Silk face. 60c; postpaid, 65c.

Gloves, Rubber

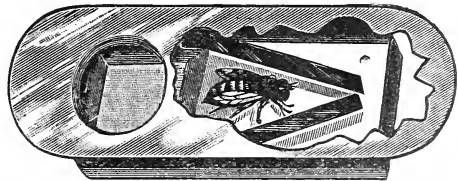


Gloves for protection of the hands and wrists are almost indispensable.

Rubber with sleeves: Gents' No. 10, 11, 12, \$1.65; postpaid, \$1.75.

Canvass with sleeves, medium and large, 65c; postpaid, 75c.

Porter Bee Escape

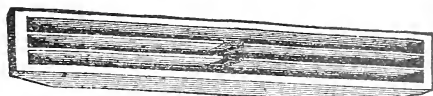


No apiarist can afford to be without bee-escapes. In taking off honey it is the greatest labor saving device that has been introduced in late years. It avoids shaking heavy spurs to get the bees out. 25c; postpaid, 30c.

Feeding

Bees are fed for two purposes: To stimulate brood-rearing or to supply them with necessary stores for winter. For stimulating, a pint to half of syrup daily either at the entrance at night or inside the hive, should be given until the required amount of brood is reared. In preparing for winter it is better to give the necessary stores all at one feed.

Feeders



SIMPLICITY—This is to be filled with syrup by mixing together granulated sugar and water in equal proportions by measure and stirring or heating until thoroughly dissolved. This feeder may be placed at the entrance at night, over the brood-frames, by placing on top of the hive or in the brood-nest itself, if a couple of frames are removed. 10c; by mail, 15c.

MILLERS—Sets on hive like a super. Holds about 25 lbs of syrup. Weight, 4 lbs. 50c; postpaid, 60c, K. D.

Dairy Supplies

DE LAVAL CREAM SEPARATORS



Skim cleanest, turn easiest, washes easiest, construction simplest, last the longest.

The De Laval was the first cream separator in 1878 and it has been first ever since.

More De Laval are in use than all other makes combined.

98 per cent of the world's creameries use the De Laval exclusively.

The machine that is best for the creameryman is best for the dairyman.

De Laval hand-size machines range in capacity from 1,350 to 135 pounds per hour and in price from \$160 to \$35—Seven sizes.

The De Laval is by far the most economical cream separator and always gives satisfaction.

If you except to buy a cream separator send for the latest De Laval catalogue, explaining in detail the construction and points of superiority of De Laval machines, or, better still, let us set up a De Laval for you on your own place and give the machine a trial. Write for catalogue and prices.

MILK CANS

DURO PATTERN —

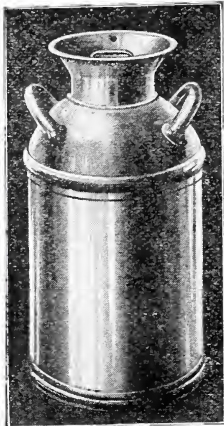
Duro cans are made with double necks, and are intended for the hardest kind of service. They are of the best specifications throughout, and are strictly sanitary in every respect. 10 gallons \$3.50; Weight 23 lbs.

ELGIN PATTERN —

The Elgin pattern has the hoopless, heavy gauge guardian bottom construction, also the one piece double rim paragon cover. 5 gallons \$2.75. Weight 13 lbs.

CLIMAX PATTERN —

This style is of lighter build than either the Duro or Elgin, but nevertheless is a good substantial can. 5 gallons \$2.50. Weight 11 lbs; 10 gallons \$3.00. Weight 17 lbs.



The Bloom "Channel Tube" Milk and Cream Coolers

is strongly constructed of seamless copper tubing, heavily tinned inside and out, with tinned brass headers, and copper troughs, tinned both sides.

The tubing is constructed in such a manner as to form a "lip" on the bottom of each tube. These lips take the place of the strips which are usually soldered on to each tube to spread the milk uniformly over the entire surface of the cooler. This construction eliminates the trouble which results from the breaking away of these strips which is caused by expansion and contraction. All soldered joints are well floated and this cooler will stand any pressure up to 100 lbs.



No. of cooler	Capacity within 2 degrees of water	Total length over all	Total height over all	Size of copper tube	Plain cooler and troughs	Tank and faucet	Brackets, per set	Cooler complete
A	50 gal.	24-in.	22-in.	1½-in.	\$26.50	\$4.50	\$1.25	\$31.50
B	65 gal.	24-in.	28-in.	1½-in.	38.00	4.50	1.25	43.00

JUNIOR—This cooler is of tin construction and is as strong and durable as it is possible to construct it, but being made of tin it is cheaper than the Bloom.

No.	Width.	Height.	Capacity per hour.	Price Plain.	Price Complete
A	15-in.	10-in.	20-gal.	\$13.00	\$19.00
B	15-in.	14-in.	40-gal.	17.00	24.00

Plain includes cooler and troughs. Complete cooler, troughs, brackets and supply tank.

PARCHMENT BUTTER WRAPPERS.

8x11, 100, 15c; postpaid, 20c. 500, 60c; postpaid, 70c. 9x12, 100, 20c; postpaid, 25c. 500, 75c; postpaid, 85c.

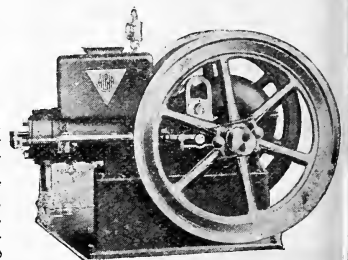
ALPHA ENGINE

A DE LAVAL product which is a guarantee to purchaser that it is dependable.

No batteries, no coil, no cranking, starts direct from high tension magneto without spinning.

Being made of high grade material and workmanship and well balanced it is capable of doing its work on less gasoline than any other engine on the market. Built to run on gasoline, distillate or kerosene. All size 2 H. P. up to 100 H. P.

Write for Catalogue. State power wanted.



PAILS

DAIRY, No. 4624 — 14-quart, \$1.00..

Extra heavy steel clad. 5A charcoal plate mirror finish, four rivet ears. Extra heavy retinned bails. Full size.



4624

No. 4634 — 14-Quart. Extra heavy steel clad 5A charcoal plate mirror finish, four rivet ears. Extra heavy retinned bails; soldered inside and outside. Full capacity. \$1.00.

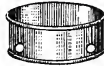


4634

STRAINERS



306



3-Quart, No. 302, \$1.00.

6-Quart, No. 306, \$1.25.

10-Quart, No. 410, \$1.50.

Extra heavy retinned, seamless, sanitary, 70 mesh, solid brass strainer cloth. Extra slip foot for cheese cloth.



910

10-Quart, No. 910, \$2.50.

Extra heavy retinned seamless, sanitary, double milk strainers. Inside strainer 100 mesh, outside strainer 70 mesh.

MILK BOTTLES

Best Flint Glass; high neck.

	Doz.	Gross.
Quarts ..	\$0.90	\$8.75
Pints ..	.65	6.00
Half Pints ..	.50	5.00

BOTTLE CAPS.

No. Lift, 35c per 1000; certified Lift, 55c per 1000. Special prices on barrel lots of 50 M, printed with your name.

PAILS



420



430

CREAM, No. 414—14-Quart, \$1.25. Dimensions 9x14.

No. 420—20-Quart, \$1.25. Dimensions 9x20. Made from full weight 5A charcoal plate. Heavy retinned, seamless cover. Heavy ears. Retinned bail with wood grip.

No. 424 and 430—14 and 20 Quart, \$1.75 each. Made the same as 414 and 420, and fitted with glass guage and solid brass faucet.

BOTTLE DELIVERY CASES

Rice & Adams reinforced wood.

12 Quart	\$1.25
15 Pint	1.25
15 half pint	1.35



4744

MILK, No. 4744—14-Quart, \$1.75.

Sanitary 5A charcoal plate mirror finish, soldered inside and outside.

BABCOCK MILK TESTER

The "20th Century" Hand

This is completely enclosed and the bottles fully protected. Built on the same principles as power testers, but smaller so that it can be operated by hand. It is intended for hand use on the farm, in the cheese factory and creamery, or anywhere it is desired to test and the necessary steam apparatus for running steam turbine is not available. It fills completely the demand for a high speed, accurate, durable, easily operated hand power tested by which either those who sell or purchase milk can tell its true value.

With each tester is included a full set of test bottles, acid measure, bottle brush and directions.

6-bottle	\$11.00
8-bottle	12.00
10-bottle	14.00
12-bottle	16.00
24-bottle	26.00
12-bottle for 9-inch bottles.....	32.00
24-bottle for 9-inch bottles.....	42.00

THE "OFFICIAL" HAND

Many thousands for "Official" testers have been sold. It is used by dairy men, farmers, in hotels and restaurants and in the laboratory. It does accurate work, and with the instructions furnished anyone can make a perfect test. The most convenient and accurate of any low priced hand tester ever offered.

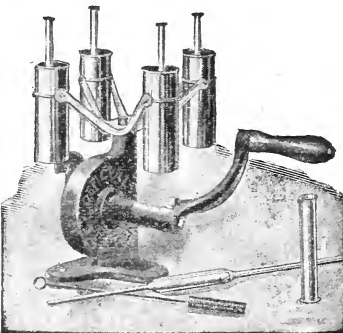
Made in two and four bottle sizes. Each tester includes a full set of bottles, pipette, acid measure, test bottle brush, acid and full directions for making tests.

No. 1—2 bottle, with necessary glassware, for milk, \$5.00.

No. 2—4 bottle, with necessary glassware, for milk, \$6.00.

No. 3—2 bottle, with necessary glassware, for both milk and cream, \$5.50.

No. 4—4 bottle, with necessary glassware, for both milk and cream, \$7.00.



ACID MEASURES

	Each.	Doz.
17—5 C. C.....	\$0.20	\$1.75
18—3 C. C.....	.20	1.75
9 Gram .....	.45	4.50

TEST BOTTLES.

	Each.	Doz.
6 inch, 10% milk	\$0.25	\$2.00
6 inch, 50%, 18 dram cream.....	.30	2.75
6 inches, 50%, 9 dram cream.....	.40	3.75
9 inch, 50%, 9 dram cream.....	.45	4.50

Skim milk test bottles, doz., 80c.

PIPETTES.

17—6 C. C., each.....	\$0.25
18—C. C., each .....	.25
17—6 and 18 C. C. combined, each.....	.30

THERMOMETERS

50c and 75c each; postpaid, 55c and 80c.

SEPARATOR BRUSHES

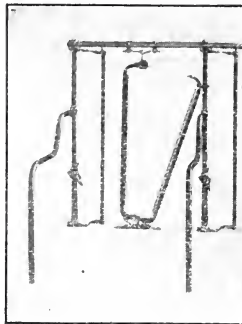
De Laval Cover, 20c; De Laval Faucet, 10c.

SEPARATOR OIL

Price, ½ gallon, 55c; gallon, 75c.

Raise calves without milk by feeding them Ryde's Cream Calf Meal. Booklet on request.

STALLS



James Stalls

The Sure Stop Swinging Post and Lock Open Device steer the cow's head right into the open stanchion—saving time and trouble.

When the cow is locked in the stanchion, the sure stop post is swung back out of the cow's way—giving her plenty of head room so that she can card herself on either side and lie down naturally.

When the stanchions are open, ready for the cows to enter, the attendant, by the simple throwing of a bar, places the sure stop posts in position for an entire row of stalls, no matter how many.

When the cows are locked in the stanchions, by the same easy movement, all the posts are thrown back against the stall partitions, entirely out of the cow's way, giving her unobstructed freedom of movement.

The various savings effected by James Stalls and Stanchions are made possible by the special patented features, without which the stall would remain merely a cow tie.

The James Alignment Device permits the adjustment of the stanchion forward or backward in the stall, lengthening or shortening the stall to fit the cow. It aligns all the cows—long, short and medium—at the rear, so that the manure falls in the gutter instead of on the standing platform.

STANCHIONS

It is a recognized fact that the use of stanchions is the most approved way of confining milk cows in their stalls. It is true that safety and comfort are the points to be considered in selecting your stanchions, and it is also equally true that all stanchions do not offer these in the same degree. We are not offering any of the many cheap stanchions on the market, but are offering one that for many years has been tried and tested, and still retains its lead over all others. This stanchion is equipped with Alignment Irons, Wood Lining, Double Chain Hanger, Anchor Plate, and Lock Open Device.

ALIGNMENT DEVICE—Adjusts the stanchion for ward or backward in the stall, lengthening or shortening the stall to fit the cow, and lining up long, medium and short cows at the rear.

WOOD LINING—Is made of thoroughly seasoned birch, carefully milled, shaped, polished to a perfect smoothness and then oiled to preserve the wood.

DOUBLE CHAIN HANGER—Is attached at the sides, where the strain all comes on the side bars and never on the hinge itself, is made of specially annealed malleable iron, has a very large bearing surface, giving it remarkable strength; will not break or get out of order.

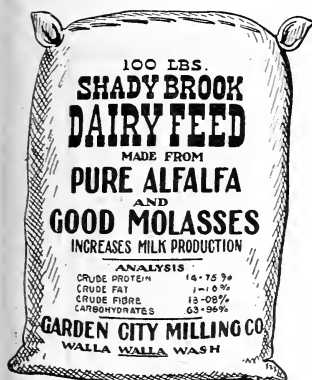
ANCHOR PLATE—Set in the concrete curb, furnishes a firm anchorage to which the stanchion is attached, is so designed that a bolt may be easily inserted or taken out. Should a bolt break it can be quickly replaced.

LOCK OPEN DEVICE—This consists of a small chain attached to the loose arm of the stanchion one link being inserted into a hook on the rigid part of the stanchion frame, making it impossible for the cow to disengage it.

Price of Stanchion, \$3.00.



STOCK FEED



SHADY BROOK DAIRY FEED—

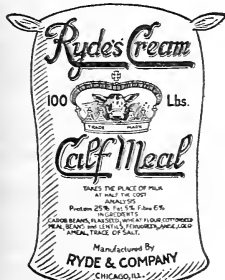
A happy combination of richness and succulence which contains the highest digestible protein grade of alfalfa that can be secured scientifically ground and blended with high grade molasses. The ingredients are mixed by a special apparatus and subjected to a process which retains and preserves the nutriment of the feed. Shady Brook Dairy Feed contains over 14% protein. Alfalfa furnishes the protein. Carbohydrates include the sugars, starch and gums; and furnish heat, energy and fat in the body. Molasses furnishes the carbohydrates. Molasses used in Shady Brook Dairy Feed contains practically 50% sugar and it should be remembered that sugar in molasses is immediately absorbed on reaching the animal's stomach, thus cutting out one process of digestion and saving energy and waste. Grain foods must be converted into sugar prior to digestion and absorption.

Begin with one quart of SHADY BROOK DAIRY FEED per head twice daily, mixing the dairy feed with other grains you are feeding. Do this three or four days, then GRADUALLY increase the dairy feed and decrease the other feed until you are feeding at least half the ration in SHADY BROOK DAIRY FEED. 100 lbs., \$1.60.

Write for prices, stating quantity wanted.

RYDE'S CREAM CALF MEAL

The Great Substitute for Milk.



You cannot afford to feed whole milk. The demand is too great and the price is too high, but if you can get a good milk substitute at from one-fourth to one-half the cost of whole milk, you are cutting a very important item of expense by about one-half. Ryde's Cream Calf Meal is the solution and one that should be taken advantage of. Ryde's Cream Calf Meal is not an experiment, but one that has been tried and tested thoroughly and fills a long-felt want. It is not the by-product or offal of any mill or factory and, being thoroughly cooked, it is absolutely digestible and will not scour the youngest calf. When fed in dry form it is an absolute cure for the worst cases of scours. If you are one of the many who are killing your calves at birth, you are losing good money daily as your calves will bring you a handsome profit if fed on Ryde's Cream Calf Meal. Price, 25 lbs., \$1.25; 50 lbs., \$2.50; 100 lbs., \$4.25.

DIGESTER TANKAGE

Every well informed feeder knows that corn and other home grown feeding stuffs lack protein and phosphates, which are absolutely necessary for proper development and growth of hogs for profitable returns.

To supply these materials in most economical form. Experiment Stations and Progressive Feeders now recognize DIGESTER TANKAGE as being the best and cheapest that can be secured.

Brood sows must have plenty of protein and phosphates in their rations, otherwise they will farrow weak, puny pigs, defective in bone and muscle. Newly weaned pigs cannot digest coarse, bulky, irritating meals. Digester Tankage is appetizing and helpful.

Growing pigs must have rations balanced with a liberal supply of digestible protein, or they cannot build up bone and muscle and take on flesh.

Hogs on clover or alfalfa pasture if fed a little Digester Tankage will be improved and cost of gains greatly reduced. 100 lbs., \$2.25.

SALT

Butter, Leslie's Recrystallized, 50-lb. bag, 80c.
Brick, Leslie's 5-lb. brick, 15c.
Half Ground, 100lb. bag, \$1.00.
Lump, Utah, 100-lbs., \$1.50.

OIL MEAL

Oil meal is an extra good food for poultry, cows, horses and calves. If fed to cows, it increases the milk flow and is a material help in calving. If properly fed calves can be entirely raised upon it. 100 lbs., \$2.50.

"GOLD COIN" CATTLE TONIC

Prepared especially for cattle and sheep. It is the most scientific conditioner and fattener ever discovered. When fed to steers or dry cows it increases the flow of milk and the butter fats (cream). When fed to sheep it increases the growth, mutton and wool. To young stock it gives health and rapid growth. It is a tonic for loss of appetite, and a preventive for scours in calves.

Put up in 25c and 50c packages; also in 25-lb. pails, \$3.50. Mailing weight, 4 lbs., 7 lbs., 32 lbs.

SAVE YOUR CALVES

Raise Them Without Milk

Why throw away money by knocking them in the head or selling them for a dollar or two at birth when they can be raised or vealed WITHOUT MILK at a fraction of the cost of feeding milk. You profit both ways selling the milk and still have the calves.

The Best Milk Substitute to Use is

Ryde's Cream Calf Meal
TAKES THE PLACE OF MILK AT LESS THAN HALF THE COST



Watertown, Wis., June, 1914.
Ryde & Co., Chicago, Ill.
Gentlemen—Above is a picture of our 4 months old calf, which I fed on Ryde's Cream Calf Meal. I followed your instructions closely. The calf can't be beat.
(Signed) Alvin Beck

the most successful milk substitute on the market—the standard of perfection. Thousands of farmers are using it and cannot say enough for it. It is NOT a stock food—it's a complete food that long experience has proved to be right for rearing calves. It contains all the nutrition of milk prepared in the most digestible form and is sold on a money back guarantee to give results.

BOOKLET "MILKLESS CALVES" FREE
100 lbs. equal to 100 gallons milk—Try it on your calves.

"PROTEINA" SOY BEAN OIL MEAL

"Proteina" is unequalled as a feed for dairy stock, producing immediate increase in milk and butter fat, as is abundantly proved by actual tests.

"Proteina" is unsurpassed as a poultry food owing to the large amount of albumen it contains. 100 lbs., \$2.50

STOCK REMEDIES

KOW KURE is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a specific remedy especially for cow diseases, such as Barrenness, Scours, Milk Fever, Caked Udder, Bloating, Red Water, Swelling of the Bag, etc. It prevents abortion and removes retained after-birth. It tones up the system, renews vitality, restores appetite to cows that are "off fed," and keeps them healthy. Makes cows good, good cows better, and makes more money for cow owners. Increases the milk flow, and enables the cows to produce strong, virorous calves.

Price, 50c, cans wt., 1½ lbs., and \$1.00 cans, wt., 3½ lbs.

BAG BALM—A soothing, penetrating ointment for all affections of the bag. 50c packages, wt., ½ lb.

GRANGE GARGET CURE—An unsurpassed and positive cure. 50c cans, wt., 2 lbs.

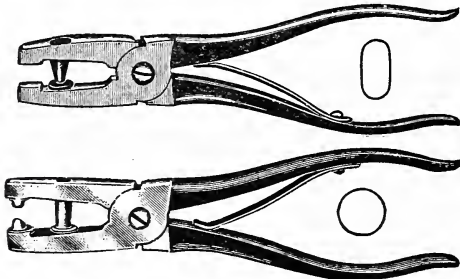
"GOLD COIN" HOG WORM EXPELLER

This is the only scientific preparation on the market today made especially for fattening and conditioning hogs. Every hog raiser needs this great "Hog Tonic." It makes extra money for every farmer who uses it, by saving of feed, rapid growth, quick fattening and prevention of diseases.

FEEDING HOGS—If your hogs are in good condition, feed one measureful of "Hog Tonic" twice a day to each full grown hog. If not thriving, feed two measurefuls three times a day until in good condition and then reduce to one measureful twice a day.

GOLD COIN HOG TONIC—Put up in 25c and 50c packages; also in 25-lb. pails, \$3.50. Mailing weight, 4 lbs., 7 lbs., 32 lbs.

PUNCHES



The combined punch and pliers are specially made for adjusting the buttons. The cutter makes the necessary hole, and the nipples seal the button.

Each, \$1.25, add 5c for postage.

EAR TAGS

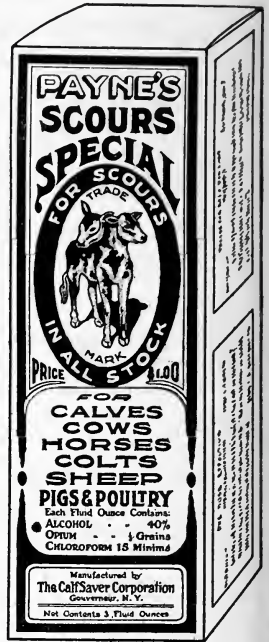


	Sheep and Hog	Cattle
25 name and number.....	\$0.75	\$0.85
50 name and number.....	1.15	1.40
100 name and number.....	1.65	2.15
500 name and number.....	7.50	10.00
25 name only or number only.....	.60	.75
50 name only or number only.....	.85	1.15
100 name only or number only.....	1.25	1.65
500 name only or number only.....	5.50	8.50

Name can be put on the one side, numbers on the other. Not more than 10 large size letters can be put on hog or sheep sizes, or fifteen on cattle. Mailing weight, 100 sheep, size 1 lb.; 100 cattle, 3 lb.

PAYNE'S SCOURS SPECIAL

It is well known that scours in calves is a source of great annoyance and loss. This should be given immediate attention, so that it may be the more easily checked. Paynes' Scours Special is also used for cows, horses, sheep, pigs and poultry. Full directions on each bottle, \$1.00. Not mallable.



CONKEY'S FLY KNOCKER—We guarantee Conkey's Fly Knock-er as an absolutely satisfactory fly spray. Use it on your horses and cattle night and morning and see the difference in the work they do for you. Not an expense, because it makes money for you, besides saving time in handling, and bringing peace to you and the stock. Does not injure the hide, odor will not taint milk. Keeps flies off.

Price, pt., 50c; 2 qts., 75c; gal., \$1.25; express or freight.

GREENHOUSE THERMOMETERS

No. 5452—Self-registering, 10 inches, black oxidized brass scales, white filled figures, black japanned tin case. \$4.00; postage 10c extra.

No. 5400—Standard Grade, 10 inches, black japanned, heavy tin case. \$1.25. Add 5c for postage.

No. 5420—Selected Grade, 8 inches, black japanned tin case. 50c. Add 10c for postage.

HOT BED THERMOMETERS.

No. 5981—Standard Grade, 16 inches, wood frame, with handle, brass pointed ferrule, brass oxidized scales, white filled figures and graduations. \$2.50. Add 10c for postage.

No. 5082—Medium Grade, 16 inches, wood frame with handle, brass pointed ferrule glass cylinder, hand written paper scale, \$1.75. Add 10c for postage.

IDEAL EAR BUTTONS

IDEAL EAR BUTTONS—Are made of pure hardened aluminum, consisting of two parts or sleeves, thus giving an absolute seal, that will not become loose.

25, \$1.25; 50, \$1.90; 100, \$3.50; 500, \$15.50; 1000, \$28.00.

Add 5c per 100 or less number for postage.



SALE TAGS

These tags are very popular with hog men for identification during sales, as they are easily fixed in the ear with the regular hog rings. Made of aluminum.

25, 60c; 50, \$1.00; 100, \$1.75. Add 5c for postage to above prices.

Raise calves without milk by feeding them Ryde's Cream Calf Meal. Booklet on request.

We believe in Quality First, Quality last, and Quality all the time.



EGGS FOR HATCHING

In order that our customers may know exactly whose eggs they will receive we give the names of different breeders. These eggs are carefully packed and with reasonable care by the transportation companies should arrive at their destination safely. Prices quoted are F. O. B., Spokane. In order that our customers may rest assured that they will receive eggs from the breeders listed, we desire to state that we are only handling the eggs as listed from the breeders mentioned and will not handle any others.

Bantams

Breeder and Variety.	Setting	50	100
Lundy Bros., Buff Cochins....	\$1.50		
Lundy Bros., Buff Cochins....	2.50	special	

Golden Campines

D. West	5.00		
D. West	7.50		

Houdans

D. West	1.50		
D. West	2.80	6.50	12.00
W. West	3.00	8.00	15.00

Leghorns

D. Balmat	1.50	4.50	8.00
D. Balmat	3.00	special	

Orpingtons

L. Tews, Buff R. C.	2.50	5.50	10.00
L. Tews, Buff R. C.	5.00	special	
Lundy Bros., White R. C.	2.50		
R. Walker, White S. C.	2.00		
R. Walker, White S. C.	3.00		
R. Walker, White S. C.	6.00	Imported stock	
Over & Bower, Buff S. C.	2.00	6.00	10.00

Rocks

Lundy Bros., Barred	1.50	4.50	8.00
Lundy Bros., Barred	2.50	special	
F. Mitchell, White	5.00		

R. I. Reds

Breeder and Variety.	Setting	50	100
J. G. Dickson, S. C.	\$2.00	\$6.00	\$10.00
J. G. Dickson, S. C.	5.00	special	
J. G. Dickson, R. C.	2.00	6.00	10.00
J. G. Dickson, R. C.	5.00	special	
H. W. Colburn, White R. C.	2.00		
(Two settings, \$5.00)			

Wyandottes

Wyandotte Ranch, White	2.00	5.00	10.00
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Ducks

Lundy Bros., Indian Runner..	1.50	4.50	8.00
Fawn and White.			
Lundy Bros., Indian Runner..	1.50		
White.			
Lundy Bros. Indian Runner...	2.50	special	
White.			

Geese

Lundy Bros., Toulouse, each.....	\$0.25		
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DAY OLD CHICKS

Leghorns.

	Each	100
Lundy Bros., S. C.	\$0.20	\$15.00

Rocks.

Lundy Bros., Barred25	20.00
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Pure Seed Movement Has Our Support

IN NEARLY EVERY INSTANCE WE ARE ABLE TO SUPPLY PURITY TEST WITH GRASSES, CLOVERS AND FIELD SEEDS. OUR VEGETABLE SEEDS ARE TESTED FOR GERMINATION. ALL SEEDS NOT GIVING SATISFACTORY TEST ARE DESTROYED. OUR SEEDS ARE KNOWN FOR QUALITY THROUGHOUT THE ENTIRE NORTHWEST.

STANDARD TEXT AND REFERENCE WORKS

By Recognized Authorities.

Farming and Gardening

	Postpaid
My Farming	\$1.65
Fertility of the Land, 421 pages.....	1.70
Fertilizers, 385 pages	1.40
Irrigation and Drainage, 502 pages.....	1.70
Food and Its Products, 311 pages.....	1.70
Cash Fruits, 537 pages.....	1.70
Principles of Fruit Growing, 516 pages.....	1.60
The Nursery Book, 365 pages.....	1.70
The Pruning Book, 537 pages.....	1.70
Plant Breeding	1.40
Manual of Gardening, 534 pages.....	2.20
The Principles of Vegetable Gardening 458 pp.	1.70
The Forcing Book, 266 pages.....	1.35
The Spraying of Plants, 399 pages.....	1.35
Mushroom Culture, 32 pages.....	.15

Stock

The Feeding of Animals, 450 pages.....	1.65
The Horse, 400 pages.....	1.40
Diseases of Animals.....	1.65
Key's Stock Book, 225 pages.....	.10

Bees

3 C and X Y Z of Bee Culture, 500 pages....	1.75
How to Keep Bees for Profit, 348 pages.....	1.65

Poultry

	Postpaid
Artificial Incubating and Brooding.....	\$0.50
The Chick Book .....	.50
Eggs and Egg Farms .....	.50
Egg Record and Account Book.....	.25
American Standard of Perfection, 290 pages...	2.00
Conkey's Poultry Book, 80 pages.....	.05
Farm Poultry, 341 pages.....	1.45
How to Keep Hens for Profit, 380 pages.....	1.05
The Philo System, 95 pages.....	1.00

Cultural Directions.

Celery	
Asparagus	
The Dahlia	
House Plants	
The Sweet Pea	
Mushroom Culture	
Annuals from Seed	
Hot-Beds and Frames	
The Vegetable Garden	
Cabbage and Cauliflower	

If requested at time of order any of the above cultural directions will be sent free if you specify which ones you want.

NUMBER OF PLANTS TO ACRE

Dis. Apart	Plants	Dis. Apart	Plants	Dis. Apart	Plants	Dis. Apart	Plants
12x 1 in.	522,270	25x18 in.	15,520	36x36 in.	4,840	60x60 in.	1,740
12x 3 in.	174,240	30x 1 in.	209,088	42x12 in.	12,446	8x 1 ft.	5,440
12x12 in.	43,560	30x 6 in.	34,848	42x24 in.	6,223	2x 3 ft.	1,810
16x 1 in.	382,040	30x12 in.	17,424	42x36 in.	4,148	8x 8 ft.	680
18x 1 in.	348,480	30x16 in.	13,068	48x12 in.	10,890	10x 1 ft.	4,380
18x 3 in.	116,160	30x20 in.	10,454	48x18 in.	7,790	10x 6 ft.	770
18x12 in.	29,040	30x24 in.	8,712	48x24 in.	5,445	10x10 ft.	420
18x18 in.	19,360	30x30 in.	6,970	48x30 in.	4,356	12x 1 ft.	3,630
20x 1 in.	313,635	36x 3 in.	58,080	48x36 in.	3,630	12x 5 ft.	770
20x20 in.	15,681	36x12 in.	14,520	48x48 in.	2,723	12x12 ft.	300
24x24 in.	10,890	36x18 in.	9,680	60x36 in.	2,901	16x 1 ft.	2,770
24x 1 in.	261,360	36x24 in.	7,260	60x48 in.	2,178	16x16 ft.	170

QUANTITY OF SEED TO ACRE

Alfalfa	8 to 15 lbs.	Horse Radish Roots.....	15,000 to 20,000
Alsike	6 to 15 lbs.	Kale, 1 oz. to 150 feet of drill.....	1 lb.
Artichoke, 1 oz. to 500 plants.....	6 oz.	Kale, thousand Headed.....	1 lb.
Asparagus, 1 oz. to 500 plants.....	1 lb.	Kohlrabi, 1 oz. to 150 feet of drill.....	2 lb.
Barley	60 to 75 lbs.	Kaffir Corn	6 to 8 lb.
Beans, Dwarf, 1 lb. to 100 feet of drill.....	50 lbs.	Leek, 1 oz. to 100 feet of drill.....	4 lb.
Beans, Tall, 1 lb. to 150 hills.....	25 lbs.	Lettuce, 1 oz. to 150 feet of drill.....	3 lb.
Beet, garden, 1 oz. to 50 feet of drill.....	5 lbs.	Melon, Musk, 1 oz. to 60 hills.....	2 to 3 lb.
Beet, Sugar, 1 oz. to 50 feet of drill.....	5 lbs.	Melon, Water, 1 oz. to 30 hills.....	3 to 4 lb.
Beet, Mangel Wurzel, 1 oz. to 50 ft. of drill.....	5 lbs.	Millett	30 lb.
Broccoli, 1 oz. to 2,000 plants.....	4 oz.	Nasturtium, 1 oz. to 50 feet of drill.....	15 lb.
Brussels Sprouts, 1 oz. to 2,000 plants.....	4 oz.	Oats	75 lb.
Broom Corn	12 lbs.	Okra, 1 oz. to 100 feet of drill.....	8 lb.
Buckwheat	45 lbs.	Onion, 1 oz. to 100 feet of drill.....	4 to 8 lb.
Cabbage, 1 oz. to 1,500 plants.....	1 lb.	Onion, for sets	30 to 40 lb.
Carrot, 1 oz. to 125 feet of drill.....	3 lbs.	Onion Sets, 1 lb. to 75 feet of drill.....	400 lb.
Cauliflower, 1 oz. to 2,000 plants.....	3 oz.	Parsley, 1 oz. to 300 feet of drill.....	3 lb.
Celery, 1 oz. to 5,000 plants.....	1 lb.	Parsnip, 1 oz. to 200 feet of drill.....	6 lb.
Chicory, 1 oz. to 100 feet of drill.....	4 lbs.	Peas, Garden, 1 lb. to 50 feet of drill.....	60 lb.
Clover, White	6 to 10 lbs.	Peas, Field	100 lb.
Clover, White, for Lawns.....	25 to 100 lbs.	Pepper, 1 oz. to 100 plants.....	1 lb.
Clover, Red and Crimson.....	12 to 20 lbs.	Potatoes	400 lb.
Collards, 1 oz. to 2,000 plants.....	4 oz.	Pumpkin, 1 oz. to 30 hills.....	3 to 4 lb.
Corn, Sweet, 1 lb. to 200 hills.....	8 to 12 lbs.	Radish, 1 oz. to 100 feet of drill.....	10 lb.
Corn, field	8 to 12 lbs.	Rape, Dwarf Essex.....	5 to 10 lb.
Corn, Fodder	8 to 20 lbs.	Rutabaga, 1 oz. to 150 feet of drill.....	2 lb.
Corn, Pop	8 to 12 lbs.	Rye	60 to 80 lb.
Cress, 1 lb. to 100 feet of drill.....	1 lb.	Salsify, 1 oz. to 50 feet of drill.....	8 lb.
Cucumber, 1 oz. to 60 hills.....	2 to 3 lbs.	Sueltz	100 lb.
Egg Plant, 1 oz. to 2,000 plants.....	4 oz.	Spinach, 1 oz. to 100 feet of drill.....	8 lb.
Endive, 1 oz. to 100 feet of drill.....	4 oz.	Squash, Summer, 1 oz. to 25 hills.....	3 lb.
Flax, for seed, 30 lbs. to acre; for fiber.....	50 lbs.	Squash, Winter, 1 oz. to 12 hills.....	4 lb.
Grass, Lawn, 1 lb. to 300 square feet.....	80 lbs.	Sugar Cane	10 lb.
Grass, Kentucky Blue, Canadian Blue.....	20 lbs.	Sunflower	8 lb.
Timothy	6 to 12 lbs.	Tobacco, 1 oz. to 10,000 plants.....	3 oz.
Red Top, in chaff, 60 lbs.; solid.....	20 to 30 lbs.	Tomato, 1 oz. to 2,000 plants.....	4 oz.
Rye Grass, Oat Grass, Fescue Grasses.....	30 lbs.	Turnip, 1 oz. to 150 feet of drill.....	2 lb.
Orchard Grass	20 to 30 lbs.	Vetches, Spring	60 to 90 lb.
Hemp	40 to 50 lbs.	Vetches, Winter	30 to 60 lb.
		Wheat	60 to 80 lb.

WEIGHT OF SEEDS PER BUSHEL

Lbs. per bu.	Lbs. per bu.	Lbs. per bu.	Lb per l
Alfalfa Clover .....60	English Rye Grass.....20	Common Millet .....50	Wheat .....60
Red Clover .....60	Oats .....32	German Millet .....50	Sugar Cane for Fod- der .....50
White Clover .....60	Barley .....48	Hemp .....44	Peas, Field .....60
Alsike Clover .....60	Corn .....56	Flax .....56	Bottom Onion Sets.....33
Timothy .. .....45	Orchard Grass .....14	Buckwheat .....50	
Blue Grass .....14	Hungarian Millett.....48	Rye .....56	

USUAL DISTANCES FOR PLANTING

Beans, Bush, drills 2 to 3 feet apart.	Melon, Water, 7 to 8 feet each way.
Beans, Pole, 3 to 4 feet each way.	Onions, drills 14 to 20 inches apart.
Beets, Early, drills 12 to 18 inches apart.	Parsnips, drills 18 to 36 inches apart.
Beets, Late, drills 2 to 3 feet apart.	Peach Trees, 18 to 24 feet each way.
Blackberries, erect growing, 6 to 9 by 4 feet.	Pear Trees, Standard, 20 to 25 feet each way.
Blackberries, Mammoth and Himalaya, 8 by 12 feet.	Peas, drills 2 to 3 feet apart.
Cabbage, Early, 16 by 30 inches.	Pepper, 15 to 18 inches by 2 to 2½ feet.
Cabbage, Late, 24 by 30 inches.	Plum Trees, 15 to 20 feet each way.
Carrots, drills 1 to 2 feet apart.	Potatoes, 12 to 18 inches by 2½ to 3 feet.
Corn, sweet, 3 to 3½ feet by 9 to 24 inches.	Pumpkins, 8 to 10 feet each way.
Corn, Field, 3½ to 4 feet each way.	Quince Trees, 15 feet each way.
Cucumber, 4 to 5 feet each way.	Radish, drills 10 to 18 inches apart.
Currants, 5 by 3 feet.	Raspberries, 6 to 8 by 3 feet.
Egg Plant, 3 by 5 feet.	Rhubarb, 2 to 4 feet by 3 feet.
Lettuce, drills 18 inches apart.	Salsify, drills 18 to 24 inches apart.
Melon, Musk, 5 to 6 feet each way.	Spinach, drills 12 to 18 inches apart.
Celery, rows 3 to 4 feet 6 inches in row.	Squash, Bush, 3 to 4 feet by 4 feet.
Cherry Trees, 15 to 20 feet each way.	Squash, Running, 12 feet each way.
Cauliflower, 2 by 2 to 2 by 3 feet.	Strawberries, Hills, 36 by 18 inches.
Apple Trees, 20 to 30 feet each way.	Strawberries, Matted Rows, 48 by 12 inches.
Asparagus, 3 to 4 by 2 feet.	Sweet Potatoes, 2 feet by 3 to 4 feet.
Gooseberries, 5 by 3 feet.	Tomato, 4 feet by 4 to 5 feet.

SPOKANE, WASH.

THE INLAND SEED CO. gives no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds or bulbs they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

Express or
Freight Office Date, 191..

[illegible]

In making your order, please give the price, to avoid delay and error.

PARCEL POST INFORMATION

Parcel Post Rates are based on districts and ZONES. The District includes the office where mailed and rural routes therefrom and a rate of 5c for the first pound and 1c for each additional pound is charged between points in this District. ZONE rates increase with the distance. See Table.

When You Order from Spokane look for the Zone that corresponds to the distance you are away. Then note where the weight of your package is marked on the table of rates, on the same line under your ZONE will be shown the amount of postage to be added when ordering. We have given the weight of most items available by parcel post, and by the aid of the table here shown you can always figure your postage.

A Parcel Post package may weigh from four ounces to fifty pounds and must not exceed in size 72 inches in length and girth combined. Four ounces or less will be charged for at one cent per ounce or fraction thereof.

In British Columbia and Canada the rate on any parcel up to four ounces is one cent per ounce. All parcels over four ounces take the pound rate, which is twelve cents per pound up to four pounds six ounces.

Fifty pounds is the limit for first and second Zones. Twenty pounds for all other Zones.

TABLE OF PARCEL POST RATES

Pounds	Local rate	1st and 2d zone rate 50 to 150 miles	3d zone rate 150 to 500 miles	4th zone rate 300 to 600 miles	5th zone rate 600 to 1000 miles	6th zone rate 1000 to 1400 miles	7th zone rate 1400 miles	8th zone rate all over 1800 miles
1	5	5	6	7	8	9	11	12
2	6	6	8	11	14	17	21	24
3	6	7	10	15	20	25	31	36
4	7	8	12	19	26	33	41	48
5	7	9	14	23	32	41	51	60
6	8	10	16	27	38	49	61	72
7	8	11	18	31	44	57	71	84
8	9	12	20	35	50	65	81	96
9	9	13	22	39	56	73	91	108
10	10	14	24	43	62	81	101	120
11	10	15	26	47	68	89	111	132
12	11	16	28	51	74	97	121	144
13	11	17	30	55	80	105	131	156
14	12	18	32	59	86	113	141	168
15	12	19	34	63	92	121	151	180
16	13	20	36	67	98	129	161	192
17	13	21	38	71	104	137	171	204
18	14	22	40	75	110	145	181	216
19	14	23	42	79	116	153	191	228
20	15	24	44	83	122	161	201	240

UP TO FIFTY POUNDS

The weights from 21 to 50 pounds and rates in the first, second and local zones are as follows:

	1st and 2d			1st and 2d	
	Local Rate	Zone Rate		Local Rate	Zone Rate
	Cents	Cents		Cents	Cents
21 pounds.....	15	25	36 pounds.....	23	40
22 pounds.....	16	26	37 pounds.....	23	41
23 pounds.....	16	27	38 pounds.....	24	42
24 pounds.....	17	28	39 pounds.....	24	43
25 pounds.....	17	29	40 pounds.....	25	44
26 pounds.....	18	30	41 pounds.....	25	45
27 pounds.....	18	31	42 pounds.....	26	46
28 pounds.....	19	32	43 pounds.....	26	47
29 pounds.....	19	33	44 pounds.....	27	48
30 pounds.....	20	34	45 pounds.....	27	49
31 pounds.....	20	35	46 pounds.....	28	50
32 pounds.....	21	36	47 pounds.....	28	51
33 pounds.....	21	37	48 pounds.....	29	52
34 pounds.....	22	38	49 pounds.....	29	53
35 pounds.....	22	39	50 pounds.....	30	54

7 Seven Great 7 Vegetables

Each Best in Its Class
HIGHLY RECOMMENDED

Cabbage

Copenhagen Market

RECENT INTRODUCTION

Finest, Largest Round Headed Cabbage in Cultivation.

Cabbage

Danish Ballhead

Very hardy and compact, smooth leaves, round, medium size, best quality.

Cabbage

Summer Ballhead

SECOND EARLY

Extremely hardy, good keeper of superb quality, sure header.

Cabbage

Danish Roundhead

Short stemmed, heads hard and solid, sweet flavor, crisp and tender.

Cauliflower

Clover Leaf Snowball

Imported Extra Early Strain of dwarf compact growth. Seed resifted, the largest and best developed only being retained. Heads solid and of good size. Denmark grown.

Peas

Potlatch

New variety, long pods, containing 8 or 9 enormous peas, very productive.

Peas

Laxtonian

Largest podder of all dwarf peas, quality and flavor both delicious.

For full description of these Seven Great Vegetables see pages 4, 5 and 15.

THE INLAND SEED CO., SPOKANE, WASH.

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CLOVER LEAF BRAND



STANDS FOR QUALITY



McKEE PRINTING CO.
SPOKANE